



SIEMENS

Explore
DotGO and
hear what
customers
say about it.

siemens.com/DotGO

DotGO. Go for consistent results, efficiently.

The MRI exam software inspired by your hands-on-experience.

Up to 20%¹ shorter exam slots.
With MAGNETOM.



MAGNETOM

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.

>> Inspired by your hands-on-experience. DotGO² for it.

Leading MRI. Together.

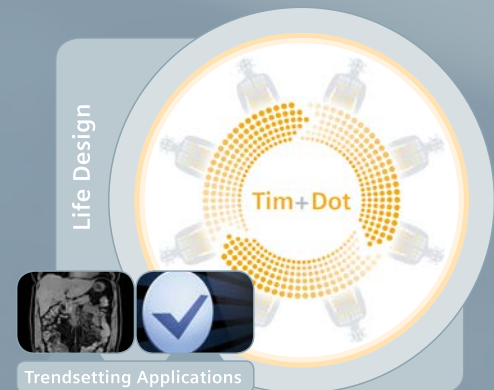
An intensifying demographic shift, the rise of chronic diseases, patients turning into consumers, the pace of innovation, and a broader access to medical imaging across the globe lead to a constantly growing number of examinations, including MRI. At the same time, this development raises central questions for healthcare providers and industry alike:

- How to manage volume growth with limited resources?
- How to control costs without compromising quality of care?
- How to expand services in either established or growing markets?
- How to continuously strive for clinical excellence in the interest of patients despite economic restraints?

Siemens MR provides answers to these questions by offering a unique combination of MRI technology, software, and clinical applications, supporting you in turning these challenges into opportunities.

With the “DNA” of Siemens MR – Tim, Dot, Trendsetting Applications, and Life Design – we support you to:

- Deliver exceptional image quality and speed in MRI. With Tim.
- Go for consistent results, efficiently. With Dot.
- Expand your MRI services. With Trendsetting Applications.
- Combine higher patient friendliness and sustainability. With Life Design.



DotGO. The MRI exam software.

- >> How to manage increasing patient volumes with limited resources?
 - >> How to reduce risks and costs without compromising quality?
 - >> How to make your staffs expertise available for the entire department?
 - >> How to reduce variation in exam scheduling and results?
- >> How to be in charge of a complex modality like MR?



In 2009, Siemens set the benchmark in MR scanning and productivity by introducing Dot. Easily adapt to the patient's condition or clinical question, consistently achieve reproducible, high-quality results, and consequently reduce exam times and the number of rescans. From 2014 on, the newest generation of Dot – DotGO – is also setting the standard in protocol configuration. For true flexibility, consistency and efficiency in every aspect of MRI.

DotGO. Go for consistent results, efficiently.



Flexibility. Intuitive protocol management.

One central user-interface to configure any protocol and flexibly create your exam strategies. Intuitive, fast functionality results in 80%³ improved usability in exam configuration. DotGO empowers you to provide your MRI expertise for the entire department and to define a higher standard of care for more patients and referrers.

Consistency. Quality results for each exam.

Every patient is different. Every referrers' and radiologists' requirement is different. But your results need to be consistent and of high quality. Your daily schedule has to be met. DotGO partners you in meeting all of these different needs with dedicated functionality for the clinical question at hand. For 88%⁴ of MRI exams, there is a Dot engine available.

Efficiency. Up to 20%¹ shorter exam slots.

Time, quality and costs define the efficiency of your MRI exams. Dot enables you to reduce exam time by up to 20% and makes scheduling more predictable (exam-time variation less than one minute⁵). Also time-consuming software interaction is reduced dramatically (by up to 46%¹). Standardized procedures support quality results for each exam and help to reduce rescans. All in all turnaround time to the referrer is quicker, quality higher, and MRI more efficient.

DotGO

DotGO is Siemens' unique MRI exam software, combining intuitive protocol management (Dot Cockpit²) with quality results for each exam (Dot engines). Resulting in up to 20% shorter exam slots. For true flexibility, consistency and efficiency in MRI.

88% 80% 1min 46% 20%

88% of MRI exams covered by Dot engines.⁴

80% better usability in MRI exam configuration.³

Less than 1 minute exam-time variation.⁵

46% less software interaction.¹

Up to 20% shorter exam slots.¹

Automatically apply your standards to your exams and the clinical question at hand.

Dot engines

Dot Cockpit

Intuitively configure all your protocols to your standard of care.

Brain
Cardiac
Angio
Abdomen
Knee
Breast
Large Joint
Spine
Tim CT Onco
Tim CT Angio

Intuitive protocol management ...



... by providing unprecedented flexibility in MRI configuration.

At the heart of this new flexibility is the Dot Cockpit. It is the central tool to continuously build your knowledge into standardized exam strategies and to make them available for every technician in your MRI department. Whether you are using a Dot engine or not, the Dot Cockpit is the new starting point for every exam.

MRI flexibility from the start:

- One central user-interface for every protocol
- Fast and intuitive protocol configuration (80%³ better usability in MRI exam configuration)
- User-friendly functionalities like drag&drop, AutoSearch
- Exam strategies created with one click
- Multiple strategies in one protocol
- Change protocols on the fly
- Changes in one sequence applied to all protocols – if you want to

Take the lead in defining the standard of MRI in your institution!

Flexibility

Dot Cockpit.

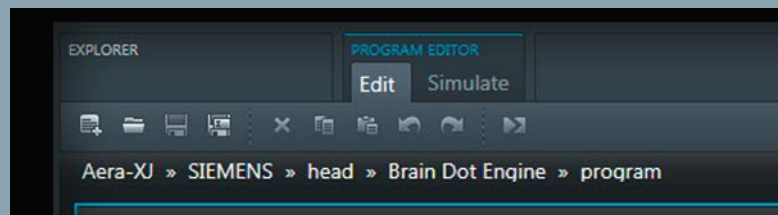
Inspired by your
hands-on experience.

Defined by
Flexibility.
Intuitive protocol
management.

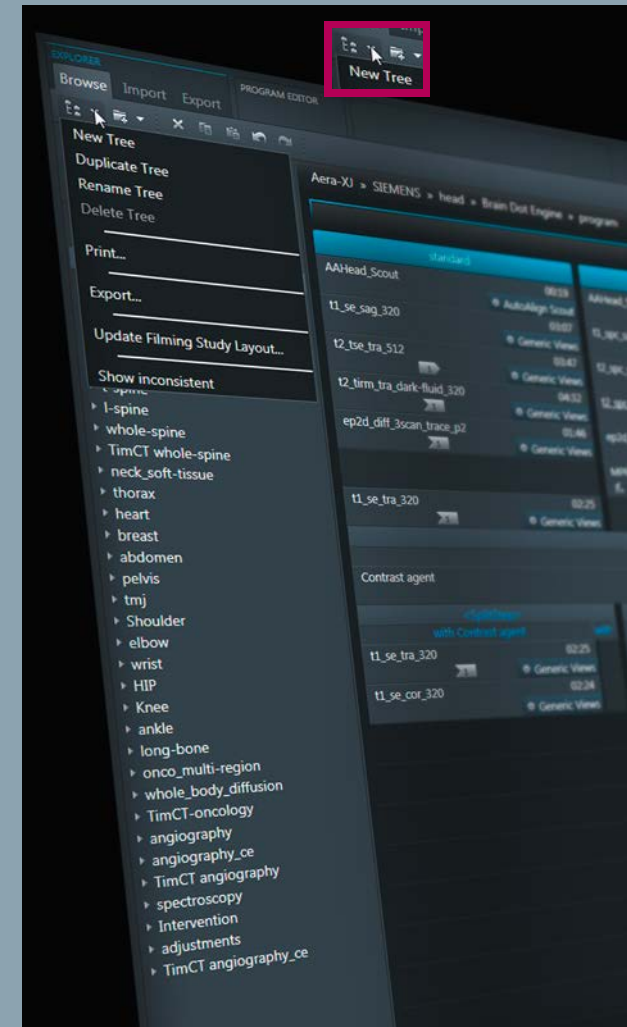
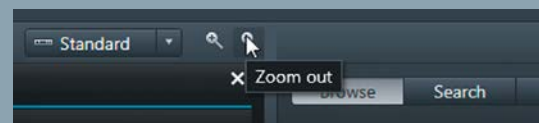
The Dot Cockpit.
One central user interface
to configure all of your
protocols.

Multiple User Trees

Known Windows icons –
easy accessible



Zoom in and out
to display protocols

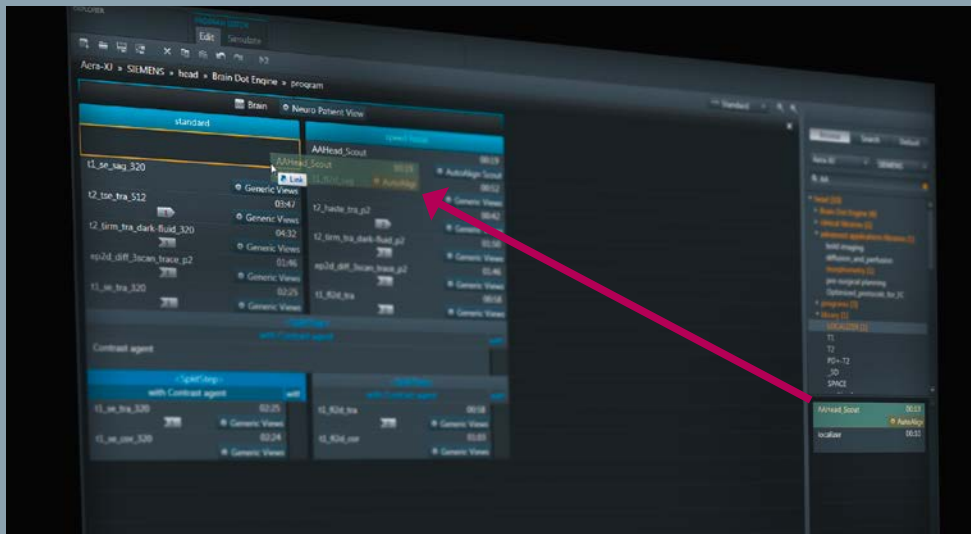
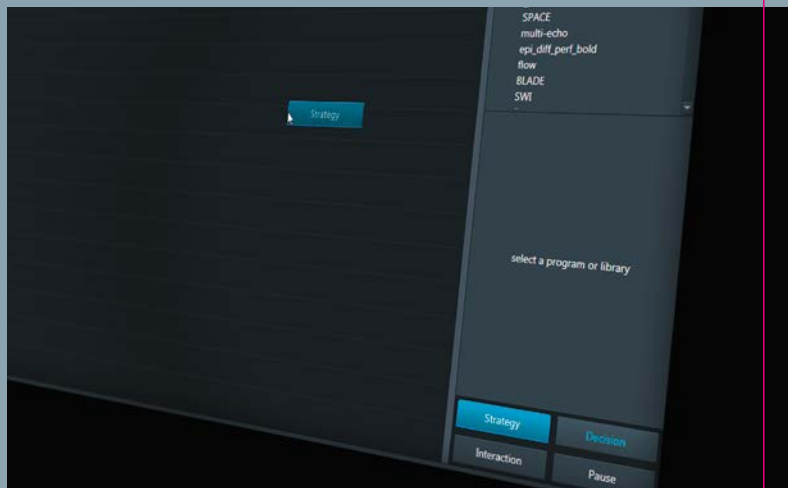


Create a strategy with one click (drag&drop)

Explorer and Editor
in one interface

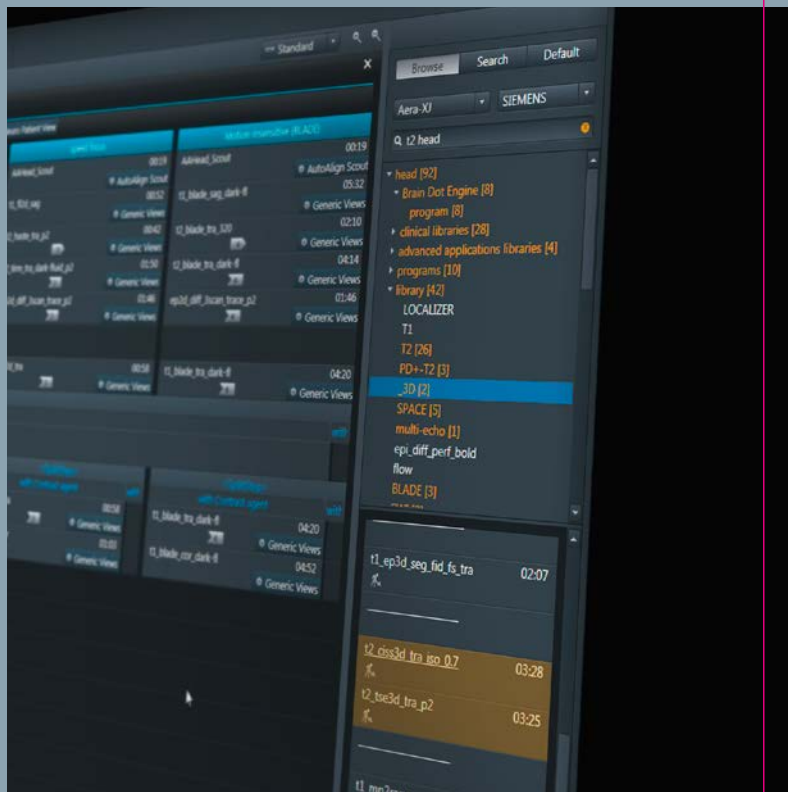
Edit protocols instantly

Build as many
strategies as you need



Drag&drop
from the sidebar
in editor

Dynamic
context search,
highlighting
results



Quality results for each exam ...



... by applying your clinical standards everytime.

With the Dot Cockpit your exams are standardized for consistency. With the specific Dot engines you automatically apply your standard to the clinical question at hand (body part, indication) but still stay flexible to adapt quickly.

Consistency in every aspect of MRI:

- More predictable exam-slots with less than one minute exam-time variation⁵
- Better navigation – intuitive guidance along the entire scan process
- Useful automation – reduce time-consuming, repetitive tasks to focus on the patient (AutoAlign, AutoCoverage, AutoBolus Detection, multilingual AutoVoice Commands)
- Smooth operation – Less software-interaction during the exam (46%¹ reduction)
- Constant flexibility – quickly adapt your workflow during the exam, at any point of time
- Visible information – specific exam views (Patient View, Guidance View, Parameter View)
- Ongoing improvement – add your guidance experience, decisions, commands to the engine

Meet the needs of your radiologists, referring physicians and patients. With consistent, reproducible imaging results for each exam.

Consistency

Dot engines.

Inspired by your
hands-on experience.

Proven by
Consistency.
Quality results
for each exam.

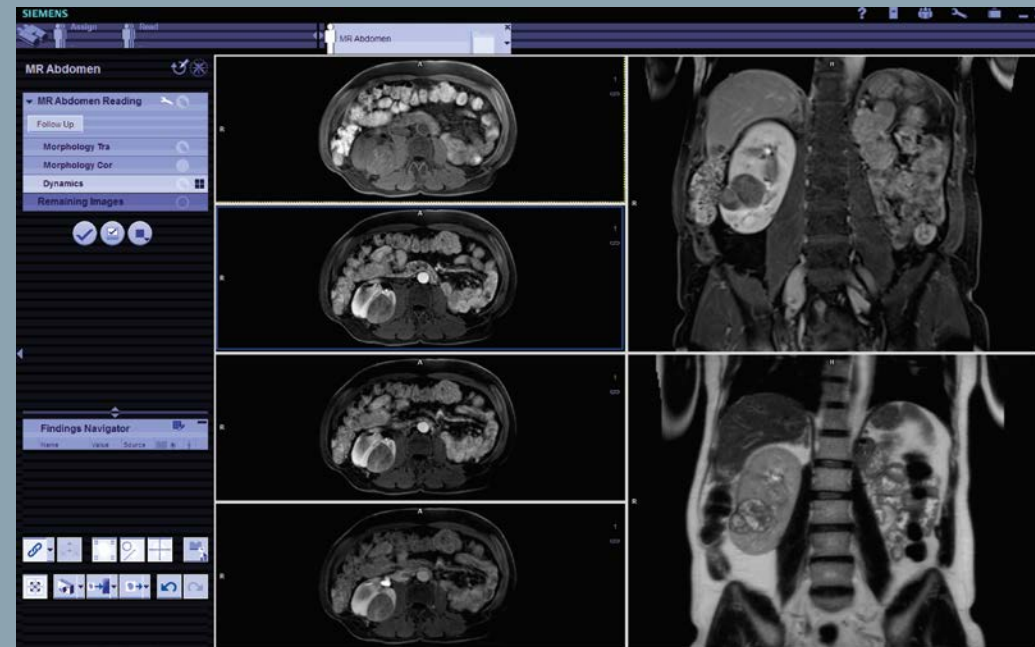
Consistency for every follow-up exam

From scanning to reading. DotGO and syngo.via.

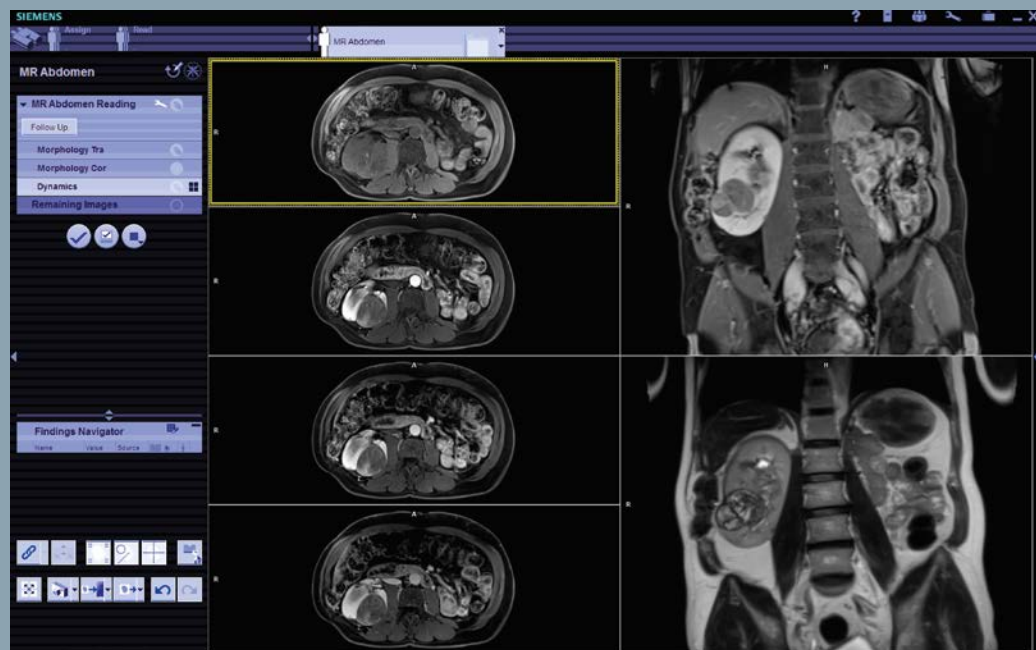
Clinical decisions are based on consistent imaging evidence, especially with follow-up patients. Depending on which location a patient was scanned, which scanner was used or which technologist did the exam, results may vary considerably.

DotGO ensures consistent and reproducible MRI results for challenging exams and follow-up studies independent of all variables. Whichever body region you are scanning and Dot engine you are using, you can get consistent high quality images, always the right angulation and plane for confident decision making.

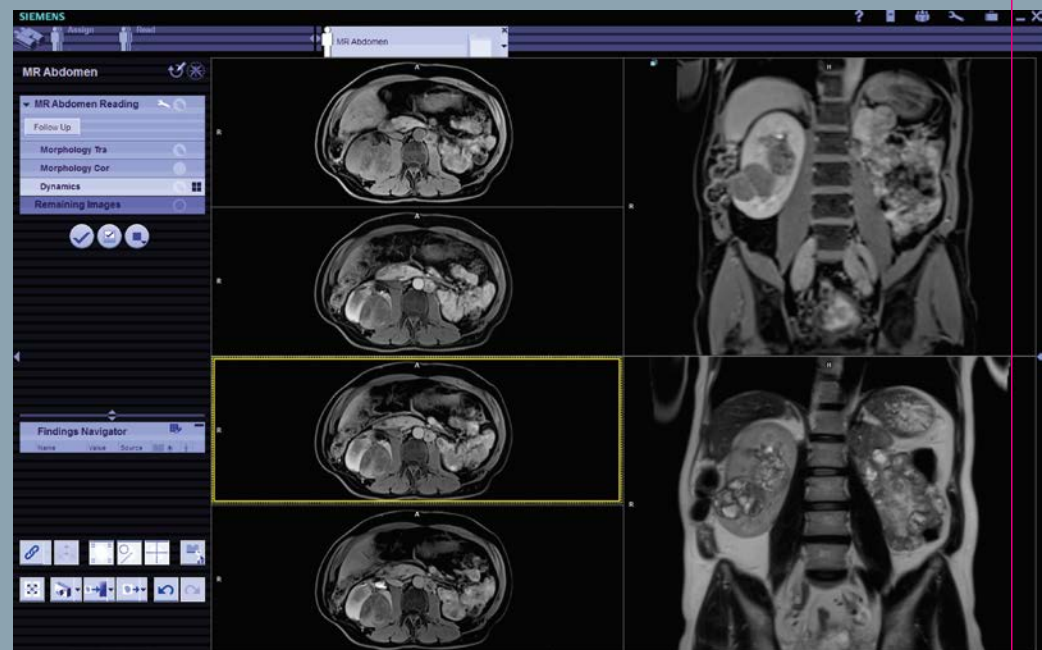
A Renal Carcinoma patient followed-up over three consecutive years with consistent results, independent of the system type, with DotGO and syngo.via reading.



2011/10/14, MAGNETOM Aera, Abdomen Dot Engine



2012/06/14, MAGNETOM Skyra, Abdomen Dot Engine



2013/06/14, MAGNETOM Aera, Abdomen Dot Engine

Up to 20% shorter exam slots ...



... is the result of increased flexibility and consistency in MRI.

However, reduction in exam times is only one benefit of DotGO. The Dot Cockpit and Dot engines make every aspect of MRI examinations more efficient. By saving time, increasing quality and controlling cost.

DotGO is the answer to:

- Manage increasing patient volumes without compromising quality
- Control operational costs by optimal use of your resources
- Expand your service offering by integrating new clinical service lines
- Make your MRI expertise accessible for every technician
- Attract more referrers by providing consistent and reproducible results for more exams
- Save time by automating repetitive, monotonous tasks
- Reduce the number of rescans, due to standardized procedures
- Increase patient satisfaction by focusing on patient experience

Minimize complexity and maximize efficiency for each MRI exam in your institution.

Efficiency

DotGO.

Inspired by your
hands-on experience.

Driven by
Efficiency.
Up to 20% shorter
exam slots.

Hand gesture stands for the letter "E" in the international finger alphabet.



What our customers say about Dot Cockpit:⁶

“With DotGO it’s going to be so much easier, and quicker to build protocols on the fly, and not interfere with taking away table time from the patient.”

“The key feature of the new DotGO is the ability to quickly see your entire protocol on one page, as opposed to having to drill down multiple levels to see what your protocols actually are. It gives us a great overview of the protocol. You know exactly what’s in there at any given time just by one glance.”

*Anthony Pavone
Chief MRI Technologist
Zwanger-Pesiri Radiology, New York, USA*

“Siemens have really listened to the requests that we passed on from our customers. And I think they’ve implemented these changes into the new DotGO.”

“... the wow factor for me is the way that you can actually see the whole protocol. So you can see the different strategies, you can see the sequences – they’re actually in each strategy. You can see the clinical decisions much more clearly. It’s all laid out in front of you in one platform, on one page.”

*Karen Kettless
Senior Clinical Application Specialist
Siemens Healthcare MR*

What our customers say about Dot engines:⁶

“The number of failed examinations has been drastically reduced by the Dot engines and the angiographies have become better. Everything is simply much more standardized now.”

*Professor Dr. Thomas Vogl
Medical Director of the Institute for Diagnostic and Interventional Radiology
of the University Hospital Frankfurt, Germany
Speaker of the Frankfurt Klinikallianz*

“We continue to innovate in MR technology but consistency and completeness of exams in MR imaging remains the biggest clinical challenge. Dot is the latest improvement that not only provides consistency between patients and ensures appropriate coverage but also guarantees expected outcomes from every technologist.”

*Dr. Lawrence Tanenbaum
New York, NY, USA*

“By customizing Dot, we have been able to enhance several of our protocols. For example, the Dot Decisions functionality in Abdomen Dot Engine has enabled us to schematize and simplify these protocols. With Dot, we can now ensure our examinations are far more reproducible and of excellent quality.”

*Arnaud Lambert
Technologist
Imagerie Médicale Saint Marie, Osny, France*

“The Angio Dot Engine is easy to understand, doesn't need preconfiguration and takes care of the right timing – simply one of the best Dot engines available.”

*Helder Magalhaes Reboredo
International Senior Application Specialist, Siemens Healthcare*

“We welcome the installation of the auto voice feature, which is also very useful. Previously, we had to stop the process during examinations to speak to the patients. With this feature, we do not have to stop the process every time, and throughput has improved.”

*Yuya Koyano
Technologist
Saitama Sekishinkai Hospital, Saitama, Japan*

DotGO.
Go for consistent results, efficiently.

The Dot engines:
covering 88%⁴ of MRI exam requests.

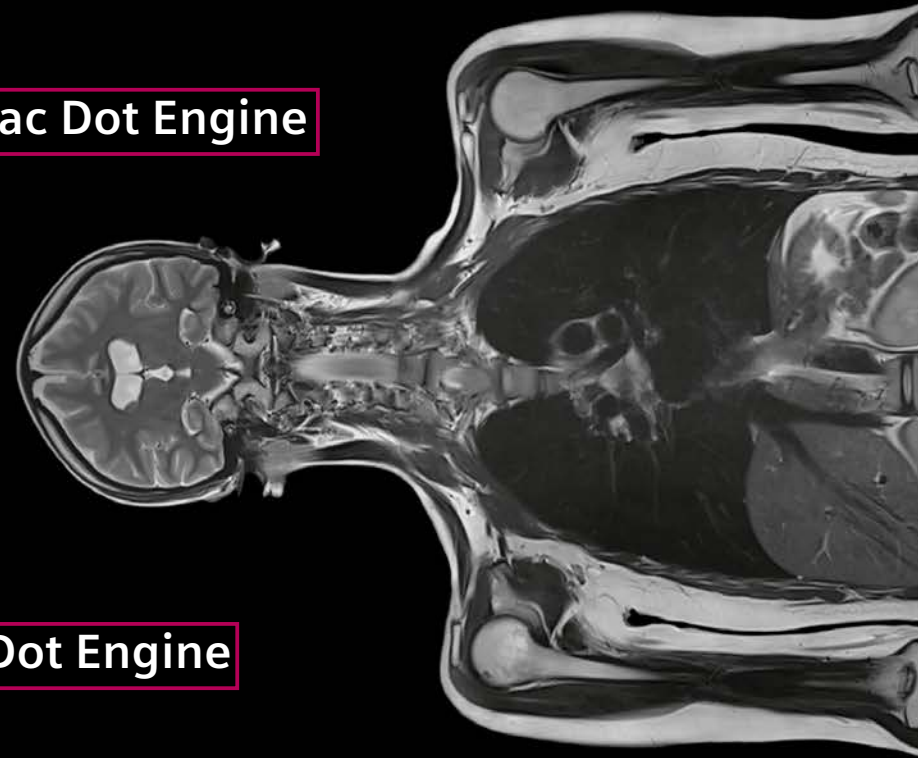
Brain Dot Engine

Cardiac Dot Engine

Breast Dot Engine

Abdomen

Spine Dot Engine



Dot Engine

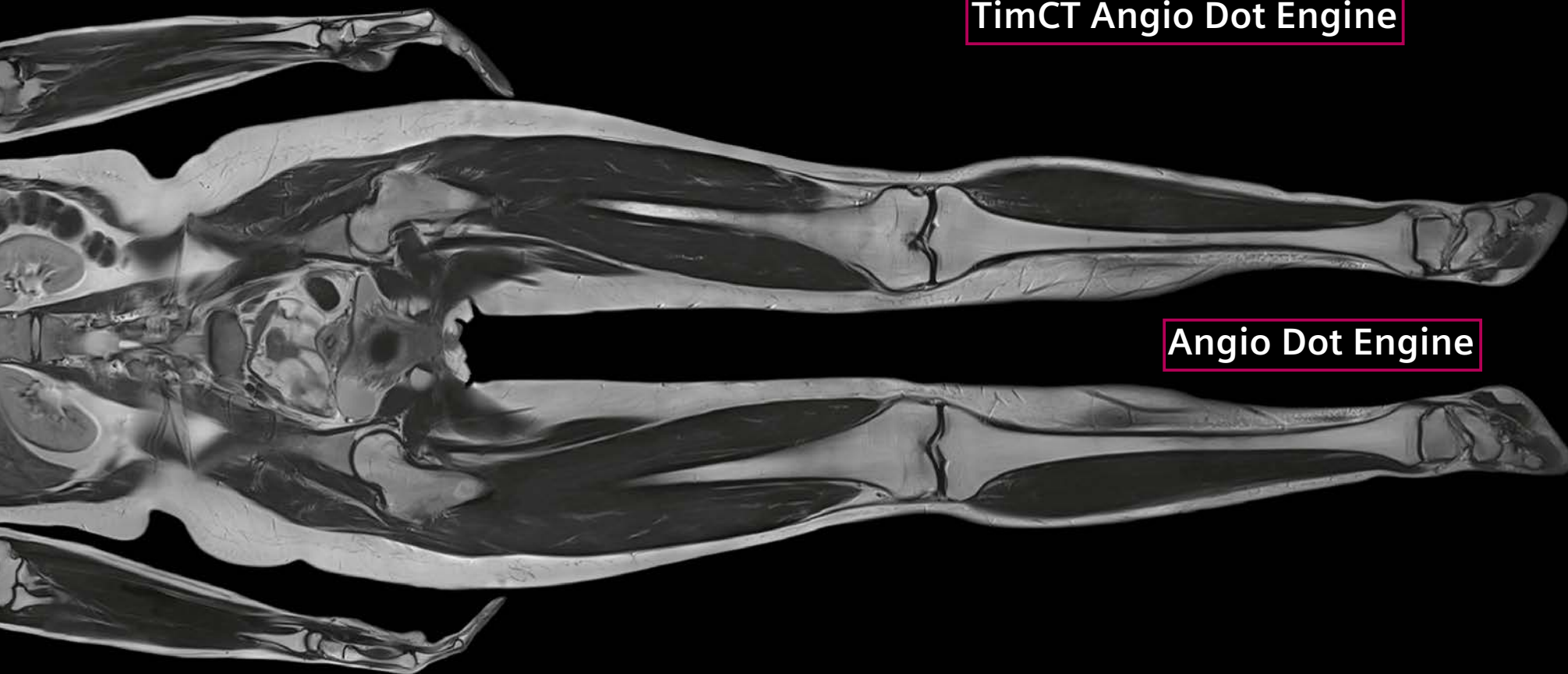
Tim CT Onco Dot Engine

TimCT Angio Dot Engine

Angio Dot Engine

Large Joint Dot Engine

Knee Dot Engine



Brain Dot Engine

The Brain Dot Engine*, with guided and automated workflows generally makes brain exams more reproducible and efficient.

Clinical case studies on
[siemens.com/magnetom-world-dot](https://www.siemens.com/magnetom-world-dot) Johan
Dehem, M.D.: Optimized Clinical Workflow

“The main way that Dot benefits the patient is it reduces scan time. So if a routine brain would take say 12, 14, 15 minutes, with the Dot engine, you may be able to reduce that by 2 to 3 minutes, which is 20% of the scan time.”

Bob Day, Chief Technical Officer,
Zwanger-Pesiri Radiology



Consistent exams with AutoAlign and BLADE

- Motion-insensitive scanning
- Consistent results for follow-up examinations
- Faster and more efficient patient scheduling
- Same slice positioning across patients and exams
- AutoAlign for hippocampus – pre- and post surgery

Up to 20% higher throughput and faster reading.

* Available for MAGNETOM Skyra, MAGNETOM Prisma, MAGNETOM Verio, MAGNETOM Avanto, MAGNETOM Spectra, MAGNETOM ESSENZA, MAGNETOM Avanto^{fit} 7, MAGNETOM Skyra^{fit} 7 and MAGNETOM Prisma^{fit}

Spine Dot Engine

The Spine Dot Engine* optimizes cervical, thoracic, and lumbar spine imaging for a wide range of patients and conditions.

Automated vertebrae labeling and Inline Curved Planar Reconstruction

- Reduce workflow steps with spine labeling and “drop and snap” positioning (AutoAlign, AutoCoverage)
- Focus on the diagnosis instead of trying to find the right plane (Inline Curved Planar Reconstruction)
- Lead in the growing trend towards 3D imaging
- Reduction of metal artifacts with WARP⁸
- Automatic detection of the spine geometry
- Consistent positioning independent of spine curvature

Fully automated spine labeling.



Clinical case studies on [siemens.com/magnetom-world-dot](https://www.siemens.com/magnetom-world-dot) Johan Dehem, M.D.: Combining Throughput and Highest Quality Spine Imaging

“Dot can be decisive in reporting and medical management: vertebra labeling in Spine Dot, for example, assures you to label your vertebral levels correctly even in the case of difficult vertebral anomalies. It can save you a lot of time while reporting.”⁶

Dr. Johan Dehem, Chief Radiologist, VZW Jan Yperman, Belgium

* Available for MAGNETOM Aera, MAGNETOM Skyra, MAGNETOM Prisma, MAGNETOM Avanto^{fit} 7, MAGNETOM Skyra^{fit} 7 and MAGNETOM Prisma^{fit}

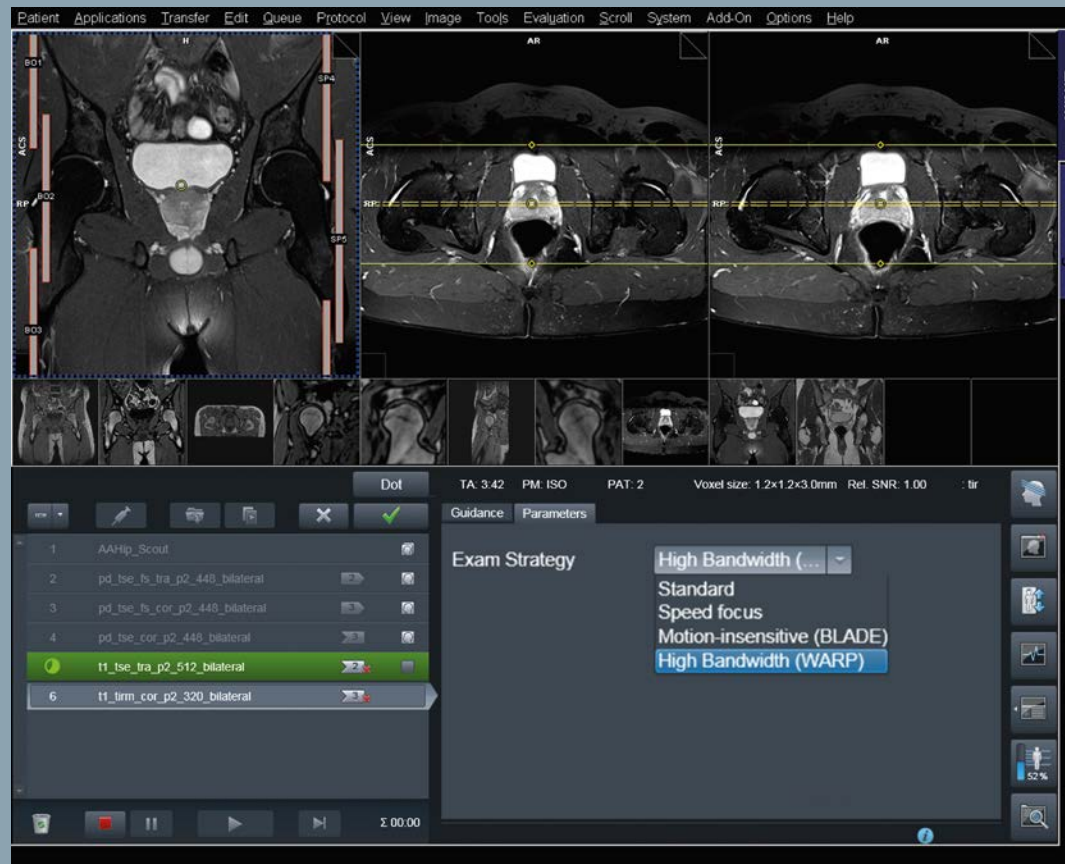
Large Joint Dot Engine

The Large Joint Dot Engine* expands on the Knee Dot Engine, allowing Dot to cover all large joints – shoulder, hip, and knee.

Clinical case studies on [siemens.com/magnetom-world-dot](https://www.siemens.com/magnetom-world-dot) Johan Dehem, M.D.: Optimized Clinical Workflow

Automated positioning of MRI slices by means of a Large Joint Dot Engine noticeably reduces examination time. The algorithms good reproducibility results in very good comparability in follow-up examinations as well. Therefore, high quality joint examinations can also be made by less experienced technicians.⁶

Dr. H.-P. Engels
Radiologie im Zentrum
Augsburg, Germany



Help reduce artifacts with WARP[®] exam strategies

- Automatic positioning and sizing of slices and the Field of View
- Reduction of metal artifacts with WARP[®] (including WARP VAT and the new Advanced WARP²) to accommodate all kinds of implant patients
- Better soft tissue evaluation in proximity of MR conditional implants
- Motion-insensitive scanning with BLADE
- Fast isotropic 3D measurements

Cover a large part of your exams with a single product.

* Available for MAGNETOM Aera, MAGNETOM Skyra, MAGNETOM Prisma, MAGNETOM Avanto^{fit} 7, MAGNETOM Skyra^{fit} 7, MAGNETOM Prisma^{fit}

Knee Dot Engine

The Knee Dot Engine* is designed to provide efficient and flexible 2D and 3D imaging workflows.

Consistent positioning and sizing with AutoAlign and AutoCoverage

- Automatic positioning and sizing of slices and the Field of View
- Reduction of metal artifacts with WARP⁸ to also accommodate implant patients
- Better soft tissue evaluation in proximity of MR conditional implants
- Motion-insensitive scanning with BLADE
- Fast isotropic 3D measurements

Reduction of artifacts with a few mouseclicks.



Clinical experience on
[siemens.com/magnetom-world-dot](https://www.siemens.com/magnetom-world-dot) Axel
McKenna-Küttner, M.D.: Imaging
at 3T,
Kai Reiter (RT): Configuration and Use
of the Knee Dot Engine

“In the area of knee
pathology in particular,
Dot and its AutoAlign
function have enabled
us to position slices
automatically without the
need for user intervention.”⁶

Alexander Fuchs, MD, Radiologist,
Imagerie Médicale Sainte Marie,
Osny, France

* Available for MAGNETOM Avanto, MAGNETOM Verio, MAGNETOM Spectra and MAGNETOM ESSENZA

Abdomen Dot Engine

The Abdomen Dot Engine* is customized for dynamic liver examinations. Consistent contrast timing results in consistent image quality for morphology and perfusion.

Scientific articles on
[siemens.com/magnetom-world-dot](https://www.siemens.com/magnetom-world-dot) T.
 Heye, Ph.D., M. Bashir, M.D.: Liver Imaging
 Today
 Diego Martin, M.D.: Challenges and Clinical
 Value of Automated and Patient-Specific
 Dynamically Timed Contrast-Enhanced
 Liver MRI Examination
 A. Quinsten (RT): How to Program a Dot
 Examination of the Liver

“First I set the ROI using
 the Abdomen Dot Engine.
 Its AutoBolus Detection
 automatically recognizes
 the contrast medium bolus
 and starts the scan at the
 right time with the right
 breathing commands.
 So, it helps me achieve
 the right timing for the
 contrast medium.”⁶

Sabrina Koch, Technologist,
 St. Franziskus Hospital,
 Münster, Germany



Optimized AutoBolus Timing for dynamic liver examinations

- Perform consistent, “hassle-free” breath-hold and contrast imaging with AutoBolus Timing and AutoVoice Commands.
- Get consistent quality for morphology and perfusion
- Perform motion free abdominal imaging
- Use offered MRCP and Diffusion decision points
- Experience Inline Technology (radial range calculation, subtraction of phases, registration for different dynamic phases)
- LiverLab² – quantitative liver imaging, non-invasively as upcoming option

100% of cases score
 5 out of 5 in timing
 quality.⁹

* Available for MAGNETOM Skyra, MAGNETOM Prisma, MAGNETOM Verio, MAGNETOM Avanto, MAGNETOM Spectra, MAGNETOM ESSENZA, MAGNETOM Avanto^{fit} 7, MAGNETOM Skyra^{fit} 7, MAGNETOM Prisma^{fit}

Breast Dot Engine

The Breast Dot Engine* enables you to scan with consistent frequency pick-up for fat, water, saline or silicone.

Consistent frequency pick-up for fat, water, saline or silicone.

- Don't miss fatty breast tissue or silicone
- Proper peak identification leads to reliable image quality (frequency adjustments are done automatically)
- Get the whole picture with AutoCoverage for perfusion and diffusion
- Single frequency adjust for 3D VIBE, reducing time-consuming mouseclicks
- Automatic MPR calculation, e.g. for high-res delayed VIEWS
- Biopsy target coordinates on the Dot display at the scanner

Increased certainty in Breast imaging.



“The Breast Dot Engine makes Breast MRI examinations efficient and more reproducible, whilst providing excellent image quality. The added feature of individual frequency adjustment, for different tissue types of dominant fat or glandular tissue, silicon or Saline implants. Ensures correct frequency peak selection producing the appropriate image contrast with excellent clinical quality.”

Karen Kettless, International Senior Application Specialist, Siemens Healthcare

* Available for MAGNETOM Aera, MAGNETOM Skyra, MAGNETOM Prisma, MAGNETOM Avanto^{fit} 7, MAGNETOM Skyra^{fit} 7, MAGNETOM Prisma^{fit}

Cardiac Dot Engine

The Cardiac Dot Engine* offers automated planning of all cardiac views with AutoAlign Heart.

Clinical talks and experience on
[siemens.com/magnetom-world-dot](https://www.siemens.com/magnetom-world-dot)
 Juliano de Lara Fernandes, M.D.:
 Bringing cardiac MRI into clinical reality
 Russell Bull, M.D.: Cardiac MRI in a district
 general hospital
 McKenna-Küttner: Imaging at 3T
 Bull: First Clinical Experience with
 Cardiac Dot

“With the Cardiac Dot Engine, we have been able to bring cardiac examinations into our clinical routine.”

Professor Christoph Bremer, MD,
 Head of the Department of
 Radiology,
 St. Franziskus Hospital Münster,
 Germany



Fully automatic planning of all cardiac views with AutoAlign Heart

- Focus on your patient and not on a complex cardiac protocol
- Easier reading due to consistent cardiac examinations
- Broaden your application spectrum of routine examinations
- Comprehensive heart exam in less than 30 minutes¹
- Motion correction with one mouseclick
- Inline Ventricular function for diagnostic information on the fly
- Timing adjusted protocols, according to ECG and breath-hold capability

Up to 50%¹⁰ increase in patient throughput.

* Available for MAGNETOM Skyra, MAGNETOM Prisma, MAGNETOM Verio, MAGNETOM Avanto, MAGNETOM Spectra, MAGNETOM ESSENZA, MAGNETOM Avanto^{fit} 7, MAGNETOM Skyra^{fit} 7, MAGNETOM Prisma^{fit}

Angio Dot Engine

The Angio Dot Engine* – acquire optimally timed contrast images with interactive bolus timing.

Acquire optimally timed contrast images with interactive bolus timing.

- Achieve consistent contrast agent timing with every Angio examination.
- Read and report MR Angio cases performed consistently with optimized kinetic timing.
- Prevent venous inflow and other artifacts caused by suboptimal timing of contrast media injection
- No manual adjustments with scanning delays automatically calculated
- Automatic detection of arterial/venous timing window with Test Bolus
- Automatic anatomical or angiographic composing of multiple images with Inline Composing

Consistent high image quality and reduced chance of error.



* Available for MAGNETOM Skyra, MAGNETOM Prisma, MAGNETOM Verio, MAGNETOM Avanto, MAGNETOM Spectra, MAGNETOM ESSENZA, MAGNETOM Avanto^{fit}, MAGNETOM Skyra^{fit} and MAGNETOM Prisma^{fit}

Clinical case studies on [siemens.com/magnetom-world-dot](https://www.siemens.com/magnetom-world-dot) Johan Dehem, M.D.: MR Angiography Imaging in an Optimized Clinical Workflow

“The Angio Dot Engine is easy to understand, doesn’t need preconfiguration and takes care of the right timing – simply one of the best Dot engines available.”

Helder Magalhaes Reboredo,
International Senior Application
Specialist, Siemens Healthcare

Tim CT Angio Dot Engine

The TimCT Angio Dot Engine* enables one smooth FoV using the Continuous Table move.



Courtesy of University Hospital, Essen, Germany

Achieve one smooth FoV using the Continuous Table move.

- CT like Angio scanning with continuous table move
- Combines integrated continuous table movement with Dot's optimized timing
- Plan multistation examinations in one step.
- Read and report MR Angio cases with one seamless FoV.
- Provide reproducible excellent images achieved with latest technology to your referring physicians.

Up to 30%^{11,12} faster acquisition for whole body angio exams.

* Available for MAGNETOM Skyra, MAGNETOM Prisma, MAGNETOM Verio, MAGNETOM Avanto, MAGNETOM Avanto^{fit} 7, MAGNETOM Skyra^{fit} 7, MAGNETOM Prisma^{fit}

Tim CT Onco Dot Engine

The TimCT Onco Dot Engine* delivers fast and seamless imaging with iPAT, while at the same time achieving excellent image quality.

Achieve one smooth FoV using the Continuous Table move.

- CT like Onco scanning with continuous table move
- Combines integrated continuous table movement with Dot's dynamic acquisition of upper abdomen
- Seamless scans of large fields of view
- No planning of multiple steps, no composing
- Automization of liver dynamics included
- Integration of in-/opposed phase and Dixon fat/water separation in a single scan.

Scan thorax, abdomen, and pelvis in less than 30 minutes.¹³



Courtesy of University Hospital, Essen, Germany

Clinical case study on
[siemens.com/magnetom-world-dot](https://www.siemens.com/magnetom-world-dot) A.-O.
Schäfer, M.D.: Comprehensive
MRI-Based Staging of Rectal Cancer

* Available for MAGNETOM Skyra, MAGNETOM Prisma, MAGNETOM Verio, MAGNETOM Avanto, MAGNETOM Avanto^{fit} 7, MAGNETOM Skyra^{fit} 7, MAGNETOM Prisma^{fit}

MAGNETOM systems ...



Learn more on siemens.com/mri

... with DotGO



Systems equipped with Tim4G and DotGO¹⁴

MAGNETOM Aera
Maximize 1.5T.
Every case. Every day.

MAGNETOM Skyra
Maximize 3T.
Every case. Every day.

... with Dot



Systems equipped with Tim4G and Dot engines¹⁴

MAGNETOM Spectra
It's the key to 3T.

MAGNETOM Prisma
The 3T PowerPack for exploration.



Systems equipped with Tim and Dot engines¹⁴

MAGNETOM Verio
Proven 3T clinical imaging.



MAGNETOM Avanto
The landmark in 1.5T imaging.



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

Further Tim 4G and Dot systems:
MAGNETOM Avanto^{fit} 7, MAGNETOM Skyra^{fit} 7, MAGNETOM Prisma^{fit}
Learn more on [siemens.com/mri-upgrades](https://www.siemens.com/mri-upgrades)

DotGO Features. For true flexibility, consistency and efficiency in MRI.

Feature		Flexibility	Consistency	Efficiency
		Intuitive protocol management.	Quality results for each exam.	Up to 20% shorter exam slots.
Dot Cockpit	The standard central exam user-interface to continuously build any protocol, for every exam.	Separation of protocol management in the Explorer and protocol editing in the Editor part Include multiple strategies in one protocol	With the Dot Cockpit your exams are standardized for consistency.	Fast configuration and adaptation of protocols.
Sidebar*	Quick access to all sequences	Create a strategy with one click Drag & Drop any sequence or protocol into the working area		Sidebar functionality enables fast and easy search/browse of the whole tree.
AutoSearch*	Enables dynamic context search	Find any sequence immediately with this functionality of the Sidebar		Dynamic search result display and highlighting of relevant protocols saves time.
Dot engines	Comprehensive scan workflow custommade for your needs	Optimized scan for virtually any patient	Step-by-step guidance and automation for improved consistency and reproducibility	Intelligent workflows take efficiency to a whole new level
Dot Views	Intuitive views for fast and easy scan handling including the Guidance View, Patient View, and Parameter View	The Patient View allows fast adaptation to patient conditions	The Guidance View provides information, reference images, and text – guiding you through the workflow.	The user adapts the Patient View, e.g by selecting a Dot Exam strategy and the measurement queue and scan set-up are done automatically.
Dot Exam Strategies	Predefined workflows to be used depending on the patient condition or clinical question	Set of predefined protocols allows for fast adaptation to different or changing patient conditions		Protocols are automatically selected; measurement queue is automatically updated.
Dot Decisions	During an examination, depending on the finding or clinical question, additional protocols can be used or skipped – you decide	Customize scanning to your standards of care	Decisions assist you when you need it	Protocols are added or removed to/from the exam queue depending on your decision
* Dot Cockpit only				

Feature		Flexibility	Consistency	Efficiency
AutoPosition	Automatic positioning of patient in the isocenter coinciding with the appropriate Dot engine		Optimized positioning helps you achieve more consistent results	Automated positioning, without the use of laser marker speeds up examinations and increases reproducibility
AutoAlign	Automatic slice positioning, available for head, knee, spine ¹⁵ , heart, hip ¹⁵ , and shoulder ¹⁵		Always secure optimal positioning of the right plane	Automatic slice positioning for more consistent and reproducible results
AutoFoV	The optimal Field-of-View is automatically estimated for you	The extent of the slice group is calculated based on the actual patient anatomy	FoV is automatically adjusted for optimal image quality	
AutoBolus Detection	Automatic detection of contrast bolus and initiation of scan sequence	Ensure accuracy with flexible and fast adaptation to patient specific bolus timing requirements	All information required at a glance such as progress monitoring of the Abdomen Dot Engine	Fully automated after definition of ROI
AutoVoice Commands	AutoVoice Commands during the scan help ensure optimal timing of breathing, scanning, and contrast media injection	Multiple languages are supported and additional one can be added easily	Eliminates the need for the attendance of a native speaker in the exam room or control room	Dot automatically plays the voice commands when required
AutoCoilSelect	Automatic detection and selection of all coil elements in the active Field-of-View		Robust, minimizing errors	Fully automated
Dot Display¹⁵	Integrated display of patient information and scanner status	Patient data is displayed at the scanner	Advice for optimal positioning e.g feet-first or ECG application	Every information for patient set-up at the scanner; no need to search for information

Customer Services

Siemens' Customer Services supports you in getting the most out of DotGO with dedicated trainings. With the Dot Online Community we also provide a platform where you can share hands-on experiences with one another.

User Training

Basic Dot – MR

This three day Classroom Training will help you to learn more about the MR and Dot (Day optimizing throughput) user interface and operating software. You will learn the basic principles and workflow of patient examinations. You will also learn how to operate, create and modify examination programs, create and save measurement protocols, manage and manipulate images, and perform necessary post-processing of data.

Dot engine Configuration – MR

This three day Classroom Training will help you to learn more about Dot engine configuration.

Through the use of demonstrations, lecture, and hands-on sessions using simulation consoles, you will learn the basic principles and workflow of building and modifying Dot engine protocols.

Evolve

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.

Interactive tool

Go and get an interactive experience of DotGO. Find out how the Dot Cockpit and the Dot engines work together. And listen to your colleagues and what they say about Dot on: [siemens.com/DotGO-interactive](https://www.siemens.com/DotGO-interactive)

MAGNETOM World

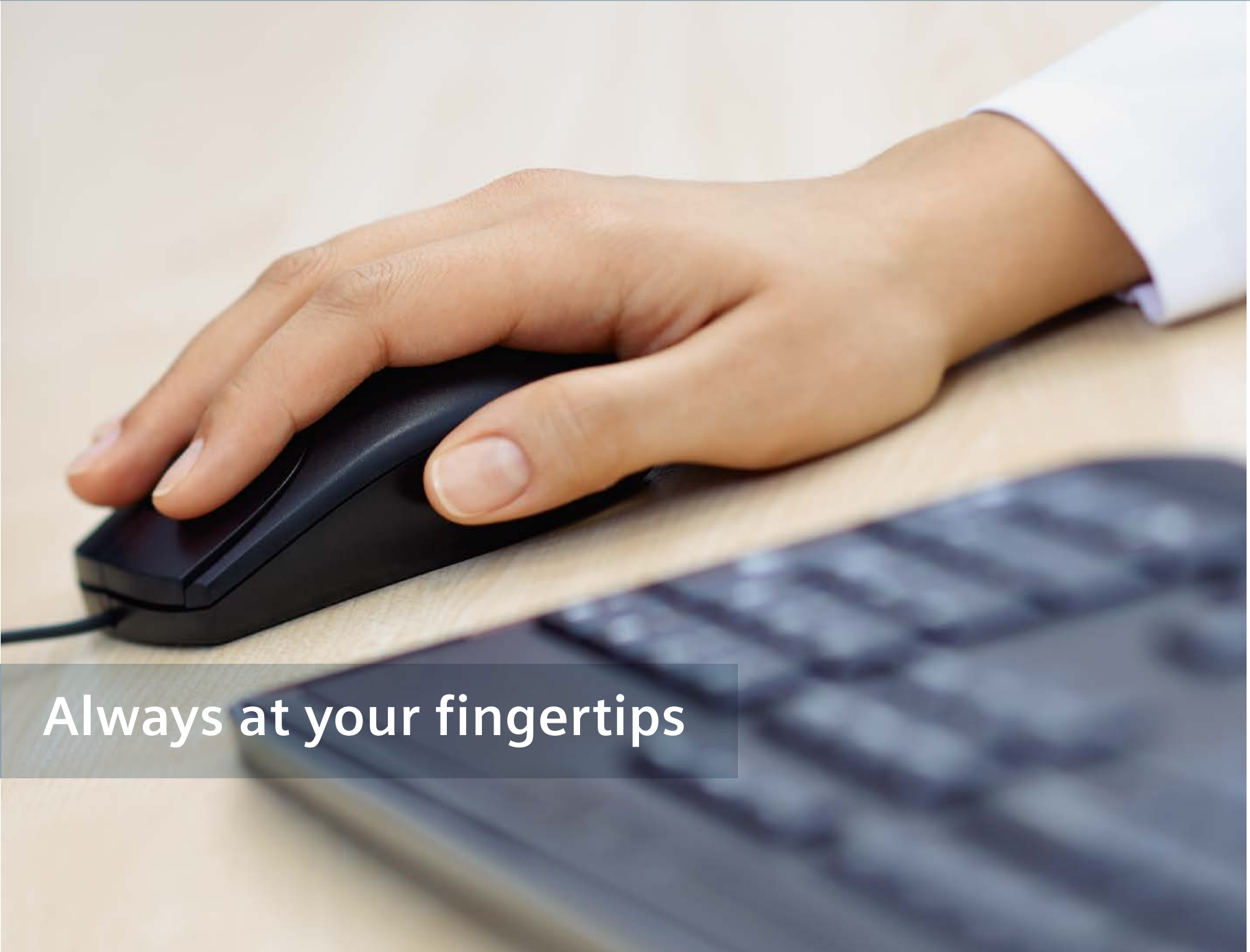
Find relevant clinical information to optimize your daily work and alternative clinical approaches to grow and expand your practice in the worldwide community of Siemens MRI users.

[siemens.com/magnetom-world](https://www.siemens.com/magnetom-world).



MAGNETOM World,
where MRI meets clinical expertise.



A close-up photograph of a person's hand, wearing a white sleeve, clicking a black computer mouse on a light-colored wooden desk. A black keyboard is visible in the foreground, slightly out of focus. A semi-transparent dark blue rectangular box is overlaid on the lower-left portion of the image, containing the text "Always at your fingertips" in white.

Always at your fingertips

DotGO.

Go for consistent results, efficiently.

Flexibility

- 80%³ better usability in MRI exam configuration
- Fast and intuitive protocol configuration
- Change protocols on-the-fly

Take the lead in defining the standard of MRI in your institution!

Consistency

- More predictable scheduling with less than one minute⁵ exam time variation
- 88%⁴ of MRI exams covered by Dot engines
- Consistency for every follow-up exam

Meet the needs of your radiologists, referring physicians and patients. With consistent, reproducible imaging results for each exam.

Efficiency

- Up to 20%¹ shorter exam slots for more efficiency in MRI
- Make your MRI expertise accessible for every technician
- Reduce the number of rescans, due to standardized procedures

Minimize complexity and maximize efficiency for each MRI exam in your institution.



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

- ¹ University Hospital Essen, GER, Brain Dot Engine Workflow Study
- ² The product/feature (mentioned herein) is currently under development; not for sale in the U.S. and other countries, future availability cannot be guaranteed.
- ³ Compared to MR protocol configuration without Dot Cockpit, Usability Study, 2013
- ⁴ Evaluation of 2.2 million Siemens MR exams, 2013
- ⁵ Zhongshang Hospital Fudan University, Fudan, CN, Abdomen Dot Engine Workflow Study
- ⁶ The statements by Siemens customers described herein are 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 others will achieve the same results.
- ⁷ May not be commercially available in all countries, future availability cannot be guaranteed.
- ⁸ 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.
- ⁹ Professor Zeng Mengsu, Department of Diagnostic Radiology, Zhongshang Hospital Fudan University, CN
- ¹⁰ Royal Bournemouth Hospital, Cardiac Dot Engine Workflow Study, Bournemouth, UK
- ¹¹ TimCT Angio study; European Journal of Radiology 80:537-542 (2011). Case study by Koziel, K. et al.
- ¹² University of Utah, Case Study Brain exam, UT, USA
- ¹³ Prof. Schaefer, Dr. Baumann, Universitätsklinikum Freiburg, Germany, Case study Tim CT Onco Dot Engine
- ¹⁴ Dot engines provided as standard differ with systems.
- ¹⁵ Please note that this functionality might not be available for all Dot systems.

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