

Image Gallery

MAGNETOM Skyra

Clinical excellence, consistently. With Tim+Dot.

Tim 4G (Total imaging matrix) Technology

Tim 4G is Siemens ultimate innovation technology that unlocks imaging power like never before.

4G Flexibility

- Up to [204x128]. Ultra high-density coil array for high resolution and an imaging distance up to 205 cm with no coil repositioning
- Excellent flexibility of any coverage up to whole body
- Up to 204 coil elements combined with up to 128 channels* for flexible Parallel Imaging

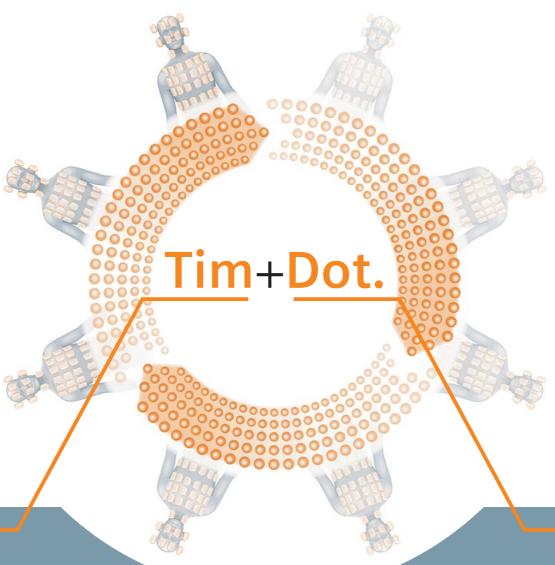
4G Accuracy

- DirectRF™. Tim's new all digital-in/digital-out design for true signal purity
- From meters to microns. High resolution imaging even when zooming in on multistation images
- TimTX TrueForm*. Optimized RF transmission for excellent B1 homogeneity

4G Speed

- Faster and simpler exam set-up and improved SNR with DirectConnect™ coils
- Tim 4G processing speed
- iPAT² technology. Parallel acquisition in two directions for fast 3D data

*only for Skyra



Dot (Day optimizing throughput) Engine

Dot offers a customizable framework to help optimize every part of your MR workflow.

Dot is personalized

- Optimized exam strategies. Your customized protocols are proposed based on the patient's condition or clinical indication
- Consistent, high quality exams even when conditions change
- Dot speaks your clinical language. Customize Dot to create strategies tailored to your clinical practice

Dot is guided

- Real-time on-board guidance. Dot guides you, intuitively, through even the most complicated exams
- Integrated decision points. The user can add or eliminate protocols or groups of protocols with the click of a button
- Customizable to your standards, to follow your standards of care

Dot is automated

- Intelligent, workflows. Dot Engines can be tailored to your clinical needs
- Effortless set-up. Dot links your protocols and procedures
- Timing is synchronized. Dot integrates AutoVoiceCommands ensuring the synchronized timing of breathing, scanning. In addition, contrast timing is more accurate due to AutoBolus Detection.



High image quality with Tim's new 4G technology

Greater image consistency and diagnostic confidence with Siemens unique Dot Engines



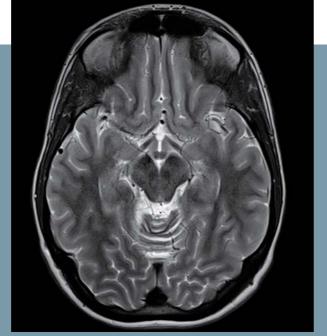
Tim+Dot. Together, they redefine productivity.

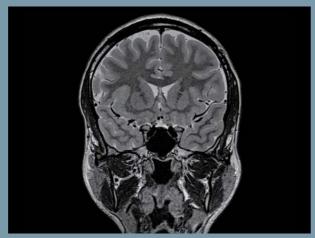
Brain

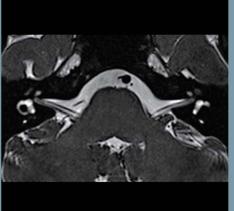
Head/Neck 20

Tim 4G offers a 20-channel Head/Neck coil designed to accommodate a wide variety of patients while offering a superb signal-to-noise ratio (SNR) for both clinical and research imaging. The unique Dual-Density Signal Transfer architecture enables a DirectConnect design eliminating cables to reduce set-up time.

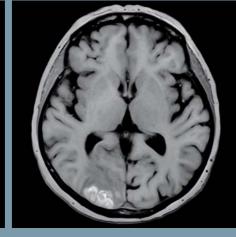






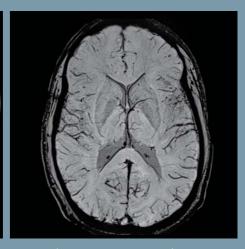












Tim coil activation:

Peripheral Angio 36

Body 18

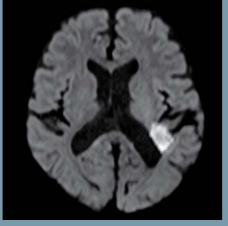
Body 18

Head/Neck 20

Spine 32



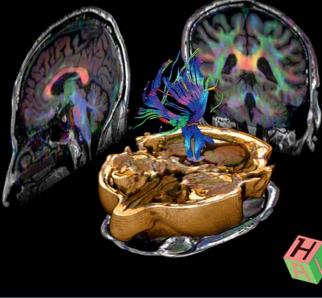
TR 3000. TE 81. TA 1:48 min



matrix. SL 3 mm. TR 4400. TE 80. TA 0.03 s/slice SL 3 mm. TR 4400. TE 80. TA 0.03 s/slice



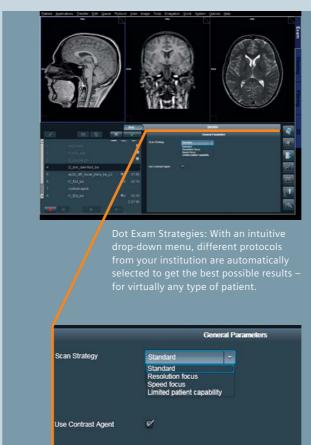


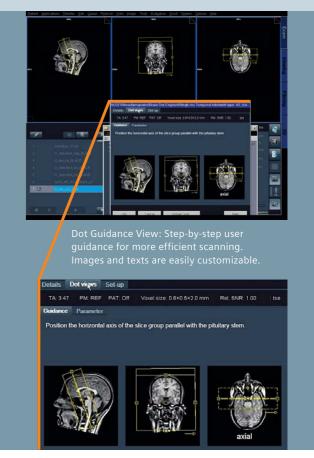


Body 18 Head/Neck 20 Tim coil activation: Peripheral Angio 36 Body 18 Spine 32

Brain Dot Engine

The Brain Dot Engine simplifies general brain examinations with guided and automated workflows customized to your standards of care. It supports the user in achieving reproducible image quality with increased ease of use and time efficient exams. With syngo BLADE the Brain Dot Engine improves image quality by correcting for the effects of motion during an MR acquisition. With Inline Technology automatic calculation of trace-weighted images and ADC maps are available, i.e. Inline Diffusion. The Brain Dot Engine has been shown to reduce exam times by 20% and significantly reduce the need for manual parameter adjustments.*





*Results may vary, data on file - Results: Prof. Forsting, Prof. Antoch, Department of Diagnostic and Interventional Radiology and Neuroradiology, University Hospital Essen, Germany

Neurovascular

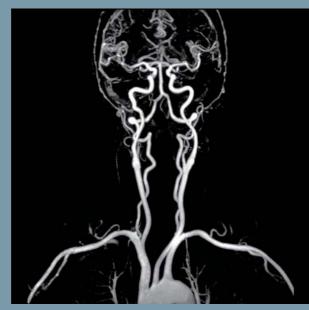
Head/Neck 20, Body 18 and Spine 32

The flexibility of Tim 4G allows you to easily create your own neurovascular array. The combination of Tim's Head/Neck 20, Body 18, and Spine 32 coils enables a seamless imaging field of view from the heart to the top of the head to ease examinations such as the carotid arteries or brachial plexus.



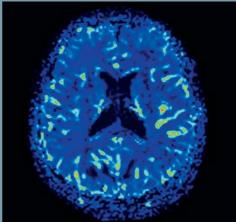


3D FLASH ToF, MIP, GRAPPA 2, 384 matrix, SL 0.5 mm, TR 22, TE 4.8, TA 5:32 min, Jacksonville Site, Jacksonville, USA

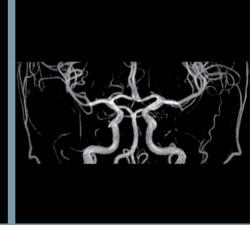


3D FLASH ce-MRA, MIP, GRAPPA 2, 384 matrix, SL 0.9 mm, TR 3, TE 1.1, TA 16 s

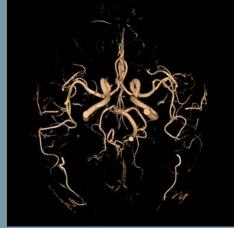
MRI Bethanien, Zuerich, Switzerland



EPI Perfusion relCBF, GRAPPA 3, 128 matrix, SL 4 mm, TR 1350, TE 30, TA 0.04 s/slice MRI Bethanien, Zuerich, Switzerland



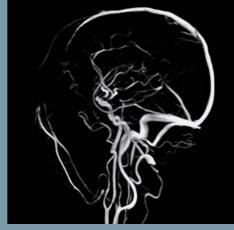
3D FLASH ToF Tone, MIP, GRAPPA 2, 512 matrix SL 0.5 mm, TR 23, TE 4, TA 6:36 min



3D FLASH ToF, VRT, GRAPPA 2, 384 matrix, SL 0.5 mm, TR 21, TE 3.4, TA 10:36 min University Hospital Kyoto, Kyoutoshi Sakyouku Japan



BD FLASH ToF, MIP, GRAPPA 2, 384 matrix, SL 0.5 mm, TR 21, TE 3.4, TA 10:36 min Jniversity Hospital Kyoto, Kyoutoshi Sakyouku, apan



hasec Contrast, MIP, GRAPPA 2, SL 3 mm R 35.7, TE 7.9, TA 2:03 min ardiocentro Ticino, Lugano, Switzerland



3D FLASH ce-MRA, VRT, GRAPPA 2, 384 matrix, SL 0.9 mm, TR 3, TE 1.1, TA 16 s MRI Bethanien, Zuerich, Switzerland

Tim coil activation: Peripheral Angio 36 Body 18 Body 18 Head/Neck 20
Spine 32

Spine cervical

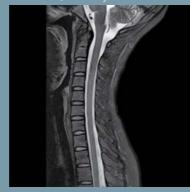
Head/Neck 20 and Spine 32

The neck portion of the Head/Neck 20 enables excellent cervical spine imaging through a combination of high SNR and an open design to accommodate a wide variety of patient shapes and sizes. The Head/Neck 20 coil can be combined with the Spine 32 coil to image further down the spine at any time during the exam and without patient repositioning.

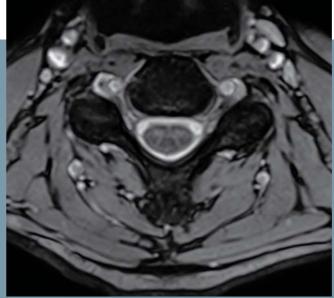


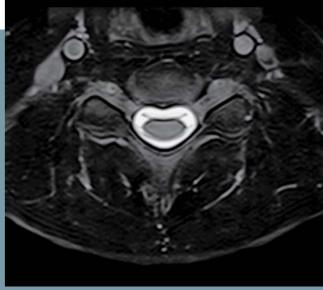






Body 18





T2 3D SPACE, GRAPPA 2, 256 matrix, SL 1.5 mm,





Tim coil activation:

Peripheral Angio 36

Body 18

Spine 32

Spine lumbar

Spine 32

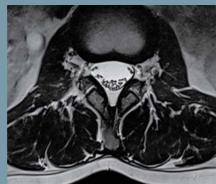
With a high density of elements, Tim 4G's Spine 32 coil offers a flexible solution that accommodates a wide variety of lumbar spine patients. The extensive coverage of the coil makes patient positioning easier and each row of elements can be switched on or off from the user console to maximize speed and SNR. A total of 12 elements would normally be selected for routine lumbar exams enabling iPAT to reduce exam times.



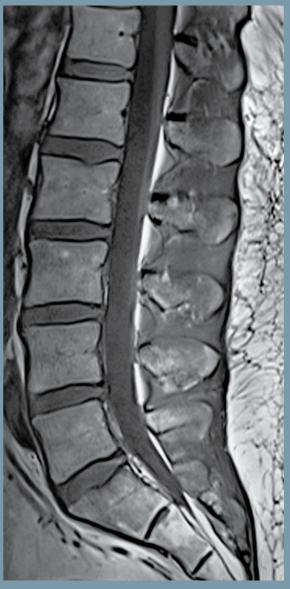
256 matrix, SL 3 mm, TR 3600, TE 46, TI 220, TA 2:06 min



T1 TSE, GRAPPA 2, 320 matrix, SL 3 mm, TR 650, TE 8.1, TA 1:21 min University Hospital Mannheim, Mannheim, Germany



SL 3 mm, TR 3500, TE 101, TA 4:18 min Jacksonville Site,



T1 TSE, 384 matrix, SL 3 mm, TR 650, TE 9.5, TA 4:30 min



T1 FLASH opposed phase, 320 matrix, SL 3 mm, TR 200, TE 3.7. TA 3:04 min

Tim coil activation: Peripheral Angio 36 Body 18 Body 18 Head/Neck 20
Spine 32

Whole Spine

Head/Neck 20 and Spine 32

Whole spine imaging in two or three steps without the need for patient repositioning is easily achieved with the Spine 32 coil. In addition, the syngo user interface allows you to quickly move back and forth between spinal regions if exams call for images before and after contrast agents. syngo Composing makes it possible to view the entire spine as one, seamless image for a comprehensive evaluation.









Tim coil activation:

Peripheral Angio 36

Body 18

Body 18

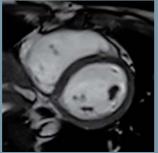
Spine 32

Chest & Heart

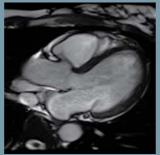
Body 18 and Spine 32

Imaging of the chest and heart is challenging due to the complexity of respiratory and cardiac motion. The Body 18 coil combines with the Spine 32 coil to offer up to 30 elements in a single field of view for chest or cardiac exams. This high density of elements enables high SNR and increased parallel imaging factors in any direction to achieve ultra-fast acquisition times. In addition, *syngo* PACE offers software based triggering and gating resulting in superb thoracic and abdominal image quality.

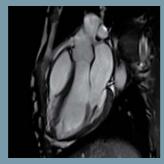




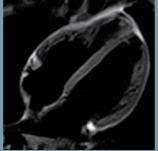
TrueFISP cine retro, GRAPPA 2, 256 matrix, SL 5 mm, TR 51.5, TE 1.5, TA 10x4.9 s



TrueFISP cine retro, GRAPPA 3, 256 matrix, SL 6 mm, TR 41.3, TE 1.5, TA 7.28 s



TrueFISP cine retro, GRAPPA 256 matrix, TR 41.3, TE 1.5, TA 7.58 s



T2 TSE Dark Blood, GRAPPA 4, 256 matrix, SL 6 mm, TR 2180.6, TE 71, TA 8.8 s



T2 HASTE, GRAPPA 3, 320 matrix, SL 8 mm, TR 200 TE 22, TA 0.25 s/slice



T2 3D SPACE, MIP inverted, GRAPPA 2, 320 matrix, SL 4 mm, TR 3688.4, TE 89, TA 4:33 min

Cardiac Dot Engine

Cardiac imaging is widely regarded as one of the most complex exams in MRI. To help make Cardiac MRI routine, the Cardiac Dot Engine guides through the examination to achieve excellent results, consistently. Clinical testing of the Cardiac Dot Engine showed a significant increase in cardiac MR patient throughput by 50%.*



Cardiac exams are easier and more consistent with the Cardiac Dot Engine.
5 simple guidance steps assist the user in acquiring the basic cardiac views. The intuitive text and image examples provide support throughout the exam.

Tim coil activation: Peripheral Angio 36 Body 18 Body 18 Head/Neck 20
Spine 32

^{*}Results may vary, data on file - Results: Dr. Russell Bull, Royal Bournemouth Hospital, U.K.

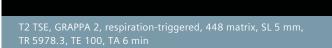
Abdomen

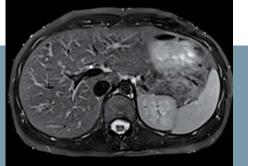
(1 Body 18 coil)

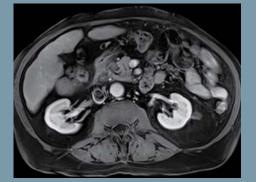
Body 18 and Spine 32

The all new Body 18 coil advances abdominal imaging with an ultra-high density array of elements and extended coverage in a light and flexible design. Combining the Body 18 coil with the Spine 32 coil enables 30 channel imaging. The Body 18 coil can also be rotated 90 degrees to extend the z-direction coverage.







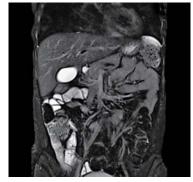


1 3D VIBE FatSat, GRAPPA 2, 320 matrix,



Abdomen

(2 Body 18 coils)



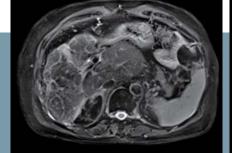
triggered, 320 matrix, SL 6 mm, TR 3300, TE 105, TA 1:24 min

Body 18

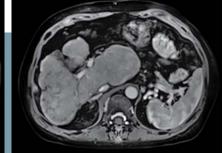


T2 TSE SPAIR, GRAPPA 3, respiration- T1 3D VIBE FatSat, GRAPPA 3, 288 matrix, SL 0.9 mm, TR 3.2, TE 1.1, TA 18 s

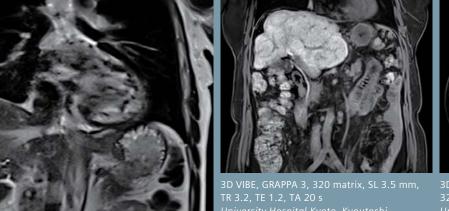


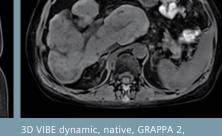


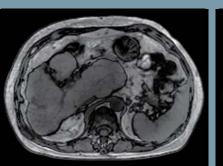
T2 TSE SPAIR, with BLADE, GRAPPA 3.



3D VIBE dynamic, 25 s post contrast.









3D VIBE dynamic, 20 min post contrast,

Tim coil activation:

Peripheral Angio 36

Body 18 Spine 32 Body 18 Head/Neck 20

Tim coil activation:

Peripheral Angio 36

Spine 32

TimCT Onco Dot Engine

TimCT Onco Dot Engine employs the revolutionary TimCT (Continuous Table move) technology for large field of view exams up to whole body exams as well as for our unique liver imaging technology (AutoBolusDetection, Timeline, AutoFOV and Phase-Navigator) for smooth workflow and homogeneous image quality. No lost time due to inter station table move. No need to compose images. Thanks to the streamlined and automated workflow and the fast acquisition time with TimCT Onco Dot Engine, a comprehensive and complete whole body scan i.e. for staging of advanced tumors can performed in less than 30 min total exam time.*



mCT Onco Dot Engine includes I sequences required for a mprehensive and fast assessme of pathologies: axial 2D multi-slice FLASH and T2-weighted TSE maging. The TSE variant can also be combined with syngo BLADE for motion insensitivity. The FLASH variant can also be combined with measurement. And for assessment technologies for easy and patien ilored dynamic scans are fully itegrated. No need to plan in ultiple steps. No need to plan

Abdomen Dot Engine

One of the most complex MR exams is an exam of the liver. Today, the challenge is the calculation of the timing. The Abdomen Dot Engine gives unique guidance through the examination and assists the user in important workflow steps to achieve excellent results, consistently. Clinical testing of the Abdomen Dot Engine showed a 28% increase in timing accuracy for enhanced liver examinations.*

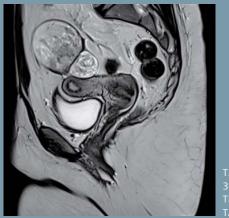


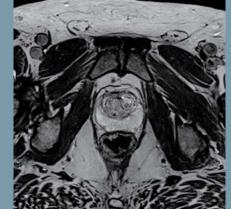
Dot's Guidance View intuitively displays the different phases of the iver dynamics. On this timeline, the user can easily plan the liver the user has input the settings and started the scan, the liver dynamic scans run without any further user nteraction. The same timeline is displayed online in the monitoring area while the liver dynamic examination is performed. This makes it easy to keep an eye on the timing and directly observe which phase is already measured and what phase comes next.

Pelvis

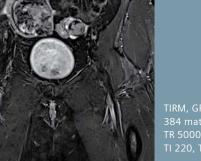
Body 18 and Spine 32

MR exams of the pelvis can now be acquired routinely with up to 30 channels for outstanding SNR and parallel imaging performance. The extended coverage of the Body 18 coil makes it possible to cover the entire pelvis and is combined with the Spine 32 coil to improve SNR.









TR 5000. TE 57.

*Results may vary. Data on file. Results: D.R. Martin, Emory University, United States

Tim coil activation:

Peripheral Angio 36

Body 18

Spine 32

Body 18 Head/Neck 20

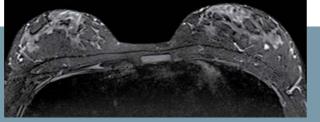
*Results may vary. Data on file.

Breast

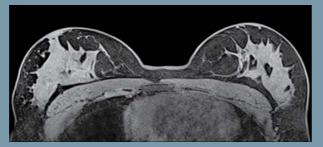
Breast coils

A variety of breast coils are enabled by the Tim Coil Interface resulting in flexible breast imaging options to meet a variety of needs. From clinical imaging to biopsy guidance, the MAGNETOM Skyra offers a wide selection of breast coils and enables outstanding image quality. Additionally, the 70 cm Open Bore of MAGNETOM Skyra makes it possible to comfortably accommodate more patients.

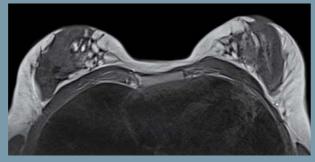




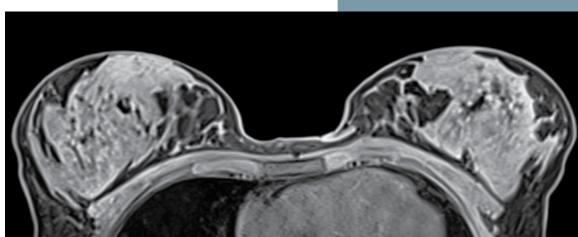
TIRM, GRAPPA 3, 448 matrix, SL 4 mm, TR 3500, TE 70, TI 230, TA 2:12 min



3D delVIEWS, GRAPPA 3, 448 matrix, SL 0.8 mm, TR 8, TE 3.9, TA 2:32 min



T2 TSE, with BLADE, GRAPPA 2, 384 matrix, SL 4 mm, TR 6160, TE 104, TA 2:53 min



3D dynVIEWS SPAIR, GRAPPA 2, 384 matrix, SL 1.5 mm, TR 4.8, TE 1.7, TA 1:02 min

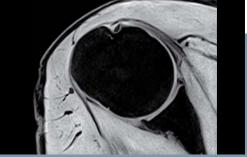
Shoulder

Shoulder 16

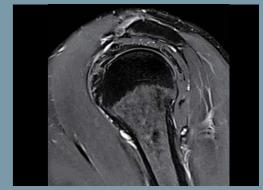
The Shoulder 16 coil currently offers the industry's highest number of elements for shoulder imaging. This high density of elements can be used to achieve excellent shoulder exams with outstanding speed. The Shoulder 16 coil is delivered in both small and large versions to accommodate more patient sizes and shapes.



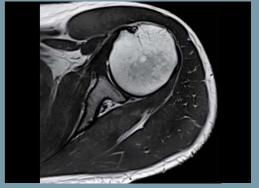




T1 3D VIBE water excitation, GRAPPA 2, 320 matrix, SL 1.5 mm, TR 13.90, TE 7.3, TA 2:20 min University Hospital Mannheim, Mannheim, Germany



T2 TSE FatSat, GRAPPA 2, 320 matrix, SL 2.5 mm, TR 5000, TE 64, TA 3:05 min University Hospital Mannheim, Mannheim, Germany



T2 TSE, with BLADE, 320 matrix, SL 3 mm, TR 4500 TF 70 TA 4:13 min

T1 TSE FatSat, GRAPPA 2, 320 matrix, SL 3 mm, TR 664, TE 21, TA 2:48 min

Elbow

Flex Small 4 and Flex Large 4

Examinations of the elbow require a highly flexible coil solution. The small and large Flex coils offer 4 channels in a design that easily fits the shape of the elbow. And with the improved access of MAGNETOM Skyra's 70 cm Open Bore it's possible to perform most elbow exams with the patients arm at their side.





PD TSE, 384 matrix, SL 3 mm, TR 3000, TE 36, TA 3:21 min



PD TSE FatSat, 320 matrix, SL 3 mm, TR 3000, TE 34 TA 3:45 min



T2 FLASH, 384 matrix, SL 2 mm, TR 500, TE 10, TA 3 min



2 TSE, 384 matrix, SL 3 mm, TR 4000, TE 8: A 2:32 min niversity Hospital Mannheim, Mannheim, ermany

Hand/Wrist

Hand/Wrist 16

The Hand/Wrist 16 coil concentrates 16 channels over the hand and wrist area to enable superb imaging. The coil is large enough to accommodate a wide variety of patients while still providing excellent SNR. The rigid design reduces involuntary patient motion for superb image quality.

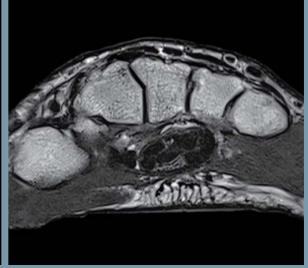




T1 TSE, GRAPPA 3, 640 matrix, SL 3 mm, TR 500, TE 12, TA 1:17 min



PD TSE FatSat, 320 matrix, SL 3 mm,TR 3000, TE 31, TA 2:57 min University Hospital Mannheim, Mannheim, Germa



Γ2 TSE, 320 matrix, SL 3 mm, TR 4000, ΓΕ 75, TA 2:20 min

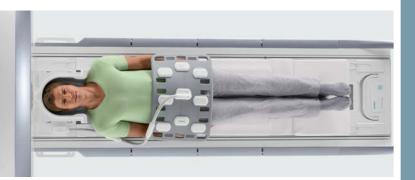


T2 TSE FatSat, 320 matrix, SL 2.5 mm, TR 4000, TE 75, TA 2:20 min

Hip

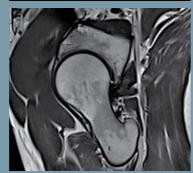
Body 18 and Spine 32

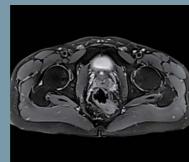
The Body 18 coil combines a high-density array with large or small field of view coverage for hip imaging. Hip exams with high SNR and high resolution are easily achieved. The coil is generally large enough to cover both hips for bilateral imaging or can be wrapped around one side to increase the element density when examining unilaterally.



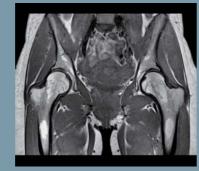


2 3D MEDIC water excitation, isotropic, GRAPPA 2, 576 matrix,





PD TSE SPAIR, GRAPPA 2,



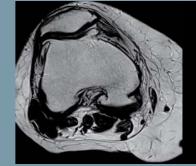
Knee

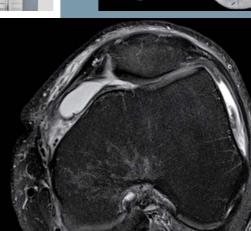
Tx/Rx 15-Channel Knee Coil

The Tx/Rx 15-Channel Knee Coil enables parallel imaging in any direction to power 2D and 3D knee exams with excellent resolution and a fast exam time. The coils large architecture accommodates a wide variety of patients. If necessary, the Body 18 coil can be used to image extra-large knees.









Tim coil activation:

Peripheral Angio 36

Body 18

Head/Neck 20

Body 18 Spine 32

Knee Dot Engine

MR examinations of the knee are commonly performed in a variety of settings. The Knee Dot Engine is designed to provide an efficient and flexible imaging workflow for all. The 3D Knee Dot Engine supports the paradigm shift to increased 3D imaging in musculoskeletal examinations.



Description Service Ed Green Flattock Service Property Service Endustries Service System Colores 1980

In the Guidance View the user gets intuitive, step-by-step guidance for expert scans, every time. Here customizable reference images are displayed to check if the automatically initiated slice positioning is correct. If the positioning is done, the user just needs to confirm and start the high-resolution imaging scan.

Plan the Multi-Planar Reconstructions (MPRs) while scanning. The user can easily plan the MPRs of the 3D scans to be performed in-line. For this an option for the three main slice orientations is suggested. The user simply selects the orientation and plans the 3D reconstruction on the localizer images in the image display area on the screen. After that the postprocessing is readily prepared even before the 3D scanning has finished. With this planning, the Knee Dot Engine will generate the reformatted images as soon as the first 3D sequence data are available.

Foot/Ankle

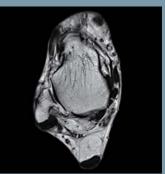
Foot/Ankle 16

The Foot/Ankle 16 coil provides extended coverage to cover both the foot and ankle and yet provides a high concentration of elements for small fields of view with high resolution. The rigid design holds the patients foot and ankle securely in place and is large enough to accommodate a wide range of patients.

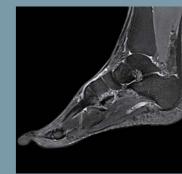




T1 TSE, GRAPPA 2, 384 matrix SL 2 mm, TR 700, TE 20, TA 1:51 min



T2 TSE, with BLADE, 384 matrix, SL 3 mm, TR 5200



TIRM, GRAPPA 2, 512 matrix, SL 2.5 mm, TR 4590, TE 37, TI 190. TA 2:22 min



1 TSE, GRAPPA 2, 448 matrix, L 3 mm, TR 700, TE 21,

33

Peripheral & Whole Body Angiography

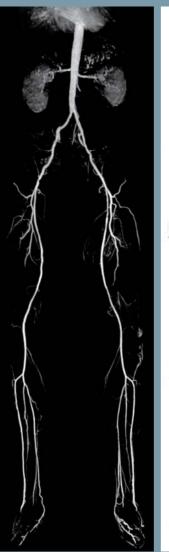
Whole body coverage of coils

Imaging the vessels of the peripheral vasculature or even the whole body is made possible by the highly flexible combination of Tim coils and the *syngo* user interface. Moving from region to region and dynamically turning coils on and off allows you to perform these complex exams quickly and consistently.

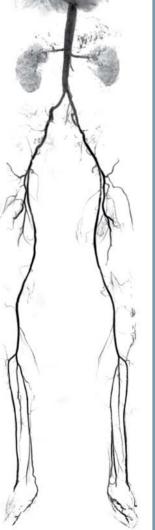




3D FLASH ce-MRA, MIP,3 steps, GRAPPA 3, 320 matrix, SL 1.1 mm, TR 2.5, TE 0.9, TA 3x1:02 min, University Hospital Mannheim, Mannheim, Germany



3D FLASH ce-MRA, MIP, 4 steps, GRAPPA 3, 384 matrix, SL 1.2, TR 2.9, TE 1.1, total TA 1 min University Hospital, Wuerzburg, Germany



3D FLASH ce-MRA, MIP, inverted, 4 steps, GRAPPA 3, 384 matrix, SL 1.2, TR 2.9, TE 1.1, total TA 1 min University Hospital, Wuerzburg,



3D FLASH ce-MRA, MIP, 4 steps, GRAPPA 3, 384 matrix, SL 1.3, TR 2.5, TE 0.9, total TA 1 min University Hospital, Wuerzburg, Germany



4 steps, GRAPPA 3, 384 matrix, SL 1.3, TR 2.5, TE 0.9, total TA 1 min University Hospital, Wuerzburg, Germany

Tim coil activation: Peripheral Angio 36 Body 18 Body 18
Spine 32

34

Whole Body

Whole body coverage of coils

Imaging from meters to microns. The flexibility of Tim makes it possible to cover the entire body up to 205 cm so you can examine large organs or organ systems and still have the signal and resolution to view small details.





Tim coil activation:

Peripheral Angio 36

Body 18 Spine 32 Body 18

8 Head/Neck 20

T2 TSE, 7 steps, GRAPPA 2, 512 matrix, SL 5 mm, TR 2210, TE 106, total TA 14:10 min

Local Contact Information

In the USA

Siemens Medical Solutions USA, Inc. 51 Valley Stream Parkway

Malvern, PA 19355 Phone: +1 888-826-9702 Phone: +1 610-448-4500

Fax: +1 610-448-2254

In China

Siemens Medical Park, Shanghai 278, Zhouzhu Road

SIMZ, Nanhui District Shanghai, 201318

P.R. China

Phone: +86-21-38895000 Fax: +86-10-28895001

In Japan

Siemens-Asahi

Medical Technologies Ltd. Takanawa Park Tower 14F 20-14, Higashi-Gotanda 3-chome

Shinagawa-ku Tokyo 141-8644

Phone: +81 3 5423 8411

In Asia

Siemens Pte Ltd
Healthcare Sector
Regional Headquarters
The Siemens Center
60 MacPherson Road
Singapore 348615
Phone: +65 6490-6000
Telefax: +65 6490-6001

Global Business Unit

Siemens AG Healthcare Sector Magnetic Resonance Henkestr. 127 91052 Erlangen

Germany

Phone: +49 9131 84-0

Legal Manufacturer

Siemens AG Wittelsbacherplatz 2 DE-80333 Munich Germany

Siemens Mindit Magnetic Resonance Ltd. (SMMR) Siemens MRI Center, Gaoxin C. Ave.,

2nd, Hi-Tech Industrial Park Shenzen 518057

P.R. China

Phone: +86 755-26525421 Fax: +86 755-26549253

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Siemens AG Healthcare Sector Henkestrasse 127 91052 Erlangen Germany