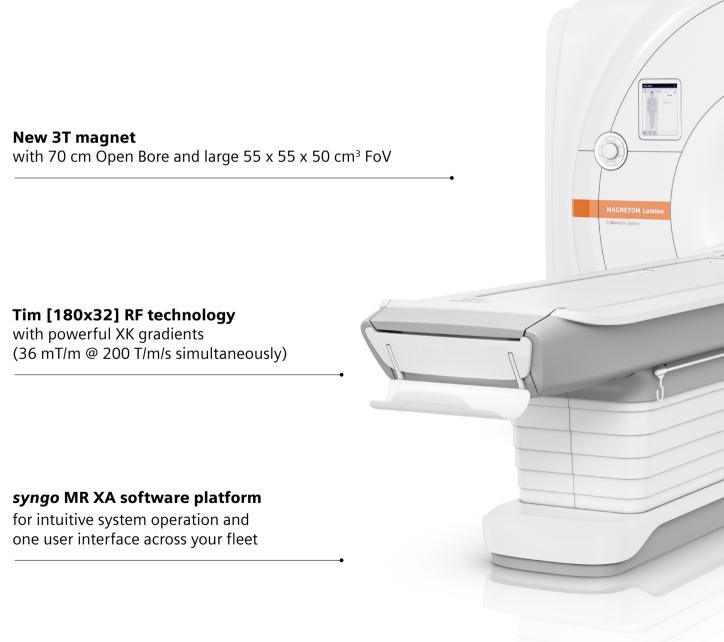




Confidence to deliver

As part of our groundbreaking new BioMatrix scanner generation, MAGNETOM Lumina is the latest 3T Open Bore system designed to fundamentally transform care delivery in your key clinical areas while providing financial sustainability.



Transforming care delivery



SIEMENS ... Healthineers

Unique BioMatrix Technology

automatically adjusts to patient biovariability

Turbo Suite

acceleration packages enable up to 50%¹ faster scanning

8 unique Dot Engines

provide highly automated scan procedures for more than 90%¹ of all MRI exams

GO technologies

powered by artificial intelligence boost patient throughput

syngo Virtual Cockpit²

the game-changing remote scanning assistance for standardized results across your system fleet

Patient-centered coil portfolio

powered by Tim 4G and BioMatrix Technology puts patients at greater ease

Confidence to deliver productivity gains

MAGNETOM Lumina accelerates routine scans by up to 50%¹ with our exclusive Turbo Suite, GO, and BioMatrix technologies.



Setting the pace in MR acceleration with Turbo Suite

Turbo Suite for MAGNETOM Lumina is comprised of two packages with unique capabilities that can be tailored to your clinical needs.

With Turbo Suite, you gain access to future developments in MR acceleration, keeping you up to date.





Further information on Turbo Suite: siemens-healthineers.us/turbo-suite

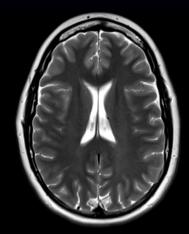
Turbo Suite Essential

Be ahead in scan time and maximize productivity with core MR acceleration technologies

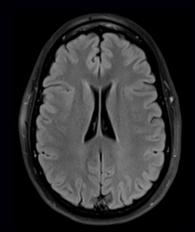
Turbo Suite Essential is our standard acceleration package for MAGNETOM Lumina. This package leverages high element density coils, the parallel imaging technique GRAPPA, and our unique CAIPIRINHA to deliver routine exams in 10 to 15 minutes².



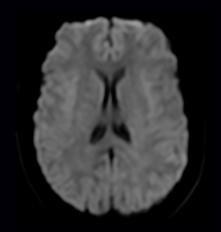
Neuro imaging



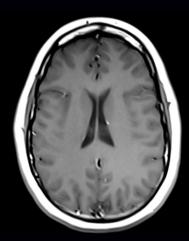
2D T2 TSE 0.6 x 0.6 x 4 mm³, TA 1:30 min



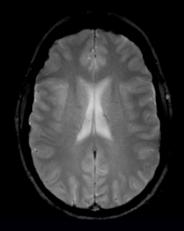
T2 Dark Fluid 0.8 x 0.8 x 4 mm³, TA 1:21 min



DWI, b1000 1.1 x 1.1 x 4 mm³, TA 1:01 min



2D T1 SE 0.6 x 0.6 x 4 mm³, TA 1:10 min



T2* 0.8 x 0.8 x 4 mm³, TA 1:27 min



Total exam
10:38 min

3D TOF 0.3 x 0.3 x 0.6 mm³, TA 4:08 min

Routine exams in 10-15 minutes¹

Isotropic 3D MSK exams utilize the power of CAIPIRINHA, delivering all clinically relevant contrasts in 10 minutes. For body imaging, up to 50%1 shorter breath-holds and high-resolution scans are possible with CAIPIRINHA.

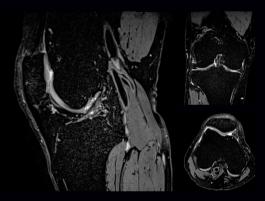
MSK imaging – 3D exam



0.5 mm iso, TA 4:34 min







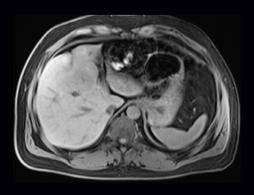
PD FS 0.6 mm iso, TA 4:31 min

Total exam 9:05 min enabled by unique CAIPIRINHA SPACE

Abdominal imaging – significantly shorter breath-holds and improved resolution



CAIPRINHA VIBE, CAIPI 6, Matrix 320, SL 1.4 mm, TA 17.2 s



CAIPIRINHA VIBE, CAIPI 4, TA 14 s

Turbo Suite Excelerate

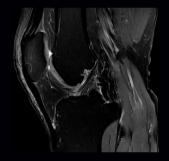
Be up to 50%1 faster for routine, clinical exams

Turbo Suite Excelerate introduces a paradigm shift in productivity with up to 50%¹ time savings, for all contrasts, orientations, and body regions.

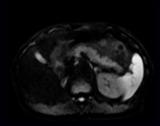


Simultaneous Multi-Slice

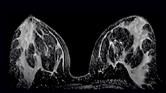
Conventional



PD TSE FS, PAT 2 0.5 x 0.4 x 3 mm³, TA 2:42 min



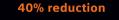
DWI, PAT 3, b800 1.4 x 1.4 x 5 mm³, TA 4:07 min

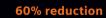


RESOLVE⁴, b800 1.2 x 1.2 x 5 mm³, TA 4:21 min

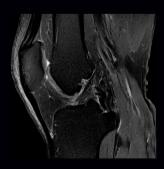
Turbo Suite Excelerate



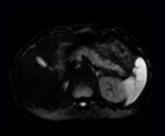




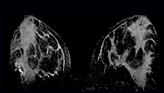
Powered by Simultaneous Multi-Slice and Compressed Sensing



SMS TSE, PAT 2, SMS 2 0.5 x 0.4 x 3 mm³, TA 1:21 min



SMS DWI, PAT 2, SMS 2, b800 1.4 x 1.4 x 5 mm³, TA 2:27 min

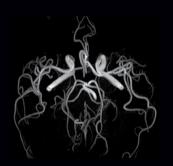


SMS RESOLVE^{2,8}**, SMS 3, b800** 1.2 x 1.2 x 5 mm³, TA 1:44 min



In addition to our latest Simultaneous Multi-Slice applications for EPI and TSE, the Excelerate package provides future security with access to planned new acceleration techniques Simultaneous Multi-Slice RESOLVE⁴, as well the Compressed Sensing acceleration for SPACE⁴, TOF⁴ & SEMAC⁴.

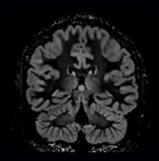
Compressed Sensing



TOF Angio³, PAT 2 0.4 x 0.4 x 0.4 mm³, TA 4:28 min



3D T2 SPACE MRCP³ 0.5 x 0.5 x 1.0 mm³, TA 7:16 min



T2 SPACE DIR³
1.4 x 1.4 x 1.4 mm³,
TA 6:07 min



SEMAC^{3,5} 1.2 x 1.2 x 3 mm³, TA 11:10 min

56% reduction

97% reduction

49% reduction

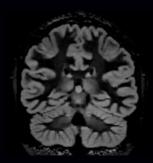
51% reduction



CS TOF Angio^{3,4} 0.4 x 0.4 x 0.4 mm³, TA 1:58 min



CS 3D T2 SPACE MRCP^{3,4} 0.5 x 0.5 x 1.0 mm³, TA 0:15 min



T2 CS SPACE DIR^{3,4} 1.0 x 1.0 x 1.0 mm³, TA 3:07 min



CS SEMAC^{3,4,5} 1.2 x 1.2 x 3 mm³, TA 5:30 min

Automate your MR workflow with GO technologies

GO technologies powered by artificial intelligence (AI) and BioMatrix help you expedite the entire workflow from patient positioning to result distribution.

30% faster¹ patient positioning

Push-button planning & scanning

Zero click, fully automated inline processing







Select&GO

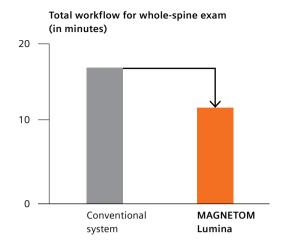
BioMatrix Select&GO, powered by AI, enables fully automated exam positioning with one touch on the display.

DotGO

The intuitive Dot workflow offers automatic placement of imaging slices with the Al empowered AutoAlign functionality—making even wholespine imaging a push-button exam.

Recon&GO

Recon&GO automatically performs postprocessing steps in the background. For example: vertebrae in the sagittal, axial, and coronal views are automatically labeled in all contrasts.





Reduced workload for radiologists through advanced applications



View&GO

Dual screens allow the user to efficiently check and distribute results in real time. In addition advanced applications such as generating computed high b-value images or 3D reconstructions of the plexus can be performed directly at the scanner, reducing the workload for radiologists.

Streamline patient handling with BioMatrix Technology



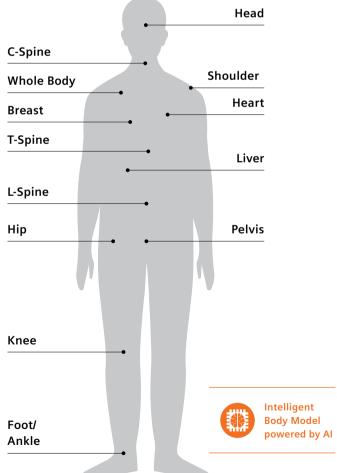
BioMatrix Technology overcomes variations by automatically adjusting to the individual patient. BioMatrix Sensors, Tuners, and Interfaces enable you to anticipate motion, adapt to any patient's body type and accelerate patient positioning. The result is higher diagnostic confidence, fewer rescans, predictable scheduling and consistent, high quality personalized exams.



BioMatrix Select&GO

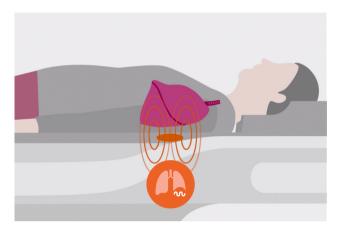


Powered by Artificial Intelligence, the BioMatrix Select&GO touch display enables patient positioning with one-touch, increasing throughput with 30% faster patient positioning¹.



Further information on BioMatrix: siemens-healthineers.us/biomatrix

BioMatrix Respiratory Sensors



Integrated into the BioMatrix Spine coil, Respiratory Sensors automatically detect breathing patterns as soon as the patient lies on the table. Respiratory-triggered scans can be performed without additional user interaction to help simplify and accelerate workflow.



Patient respiration data, acquired by the BioMatrix Sensors, are displayed on the user interfaces, including the Select&GO touch panel directly at patient-side. By viewing the patient's respiration rate, technologists have a sense for how patients are reacting to the exam and can adapt their patient and scanner interactions.

BioMatrix Beat Sensor



The Beat Sensor is seamlessly integrated into the BioMatrix Body 12. It is designed for automatic cardiac triggering⁶ without the need for the time-consuming application of ECG leads.

BioMatrix Dockable Table



The BioMatrix Dockable Table with its intuitive control panel streamlines your patient flow especially for immobile patients.

Confidence to deliver reproducible results

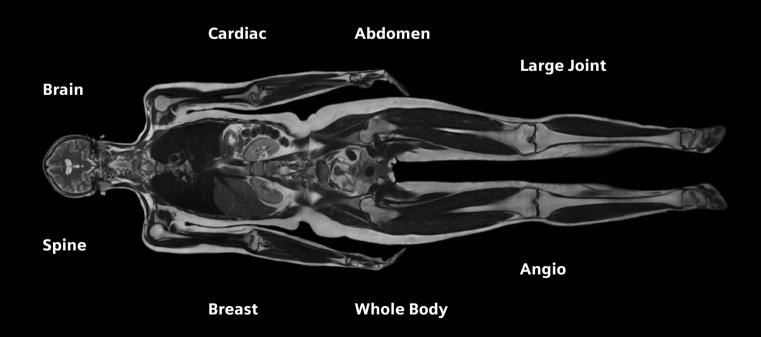
MAGNETOM Lumina delivers consistent diagnostic results across your institution. Eight unique Dot Engines and innovative BioMatrix Tuners achieve highly reproducible scan results. One common interface, syngo MR XA software, and the game-changing syngo Virtual Cockpit² enable consistency across your entire fleet. pnance · MAGI ETOM Lumina

Automated reproducibility with Dot Engines

MAGNETOM Lumina's eight unique Dot Engines tailored to different body regions provide highly automated scan procedures for more than 90%¹ of all MRI exam requests. Each Dot Engine provides a comprehensive guidance system and predefined scan strategies. AutoAlign, powered by artificial intelligence, delivers automatic placement of imaging slices to ensure reproducible scan results—every time.

Over 90% of MRI exams covered

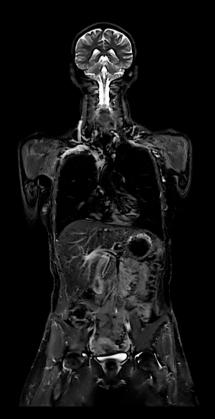




Whole-body MRI from head to pelvis in less than 24 min¹ scan time!

The Whole-Body Dot Engine reduces the planning and execution of complex, whole-body exams to a few clicks. Simply select which regions need to be scanned, choose whether a focus region should be investigated, and set a few patient specific parameters (e.g., breath-hold capability).

All core protocols for bone and lymph node metastasis detection are covered.



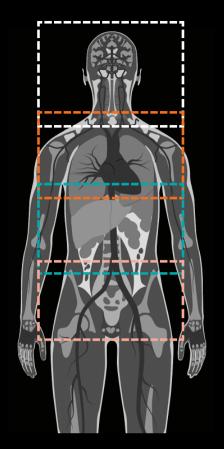




VIBE DIXON Water image



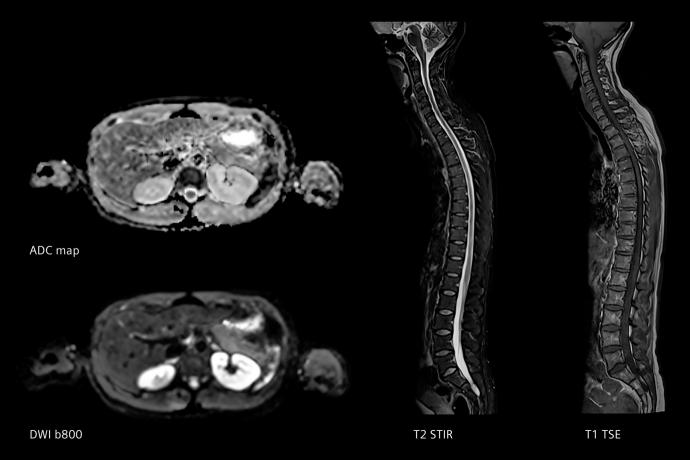
DWI b1400 MIP







Whole-Body Dot Engine: intuitive and guided workflow

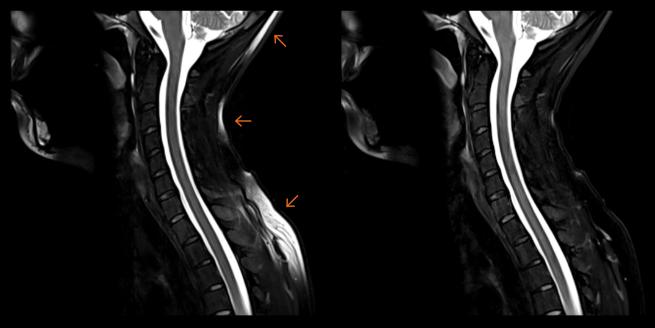


Adapt to challenging anatomies for reliable results with BioMatrix Tuners



BioMatrix Tuners adapt to challenging anatomies, such as the head/neck area, the spine and the abdomen, for reliable exam results. Even for difficult scan regions, our intelligent coil technology consistently delivers excellent homogeneity and fat saturation—driving robustness and reproducible high-quality imaging—for every patient, every time.

Significantly improved fat saturation and image quality with BioMatrix Tuner CoilShim

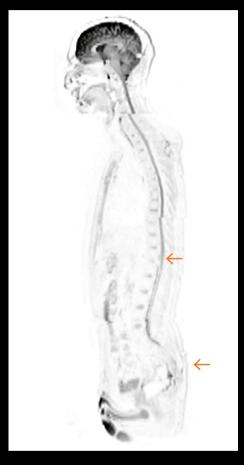


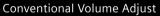
Conventional Shim

With CoilShim

Integrated into the new BioMatrix Head/Neck 20 coil, CoilShim increases diagnostic quality and reduces the need for repeat scans by delivering improved fat saturation and better DWI quality in the neck region. CoilShim technology ensures that the challenging area is automatically and optimally shimmed for reproducible quality in every patient.

Improved image quality in the entire imaging volume with BioMatrix Tuner SliceAdjust







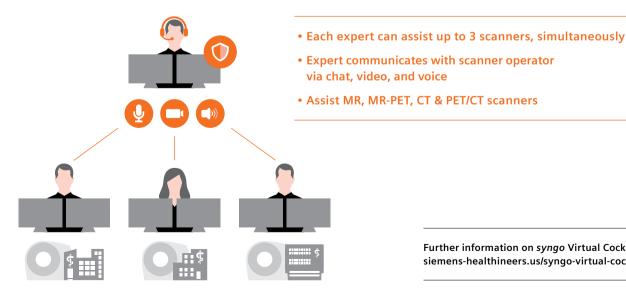
With SliceAdjust

SliceAdjust technology provides reliable fat saturation for both TSE and DWI sequences, as well as distortion-free whole-body DWI scans. It avoids broken spine artifacts in whole-body DWI for excellent correlation with anatomical scans.

Reproducible results across your fleet with syngo Virtual Cockpit²

syngo Virtual Cockpit² enables an expert to assist scan procedures from a distance. Expert colleagues receive access to the scanner and can support less-experienced technologists—ensuring reproducible results across your entire MR system fleet.





Further information on syngo Virtual Cockpit: siemens-healthineers.us/syngo-virtual-cockpit

Digitalizing healthcare

syngo Virtual Cockpit² can assist you in a variety of everyday use cases:



Routine examinations Less-trained technologists can receive live support



Staff bottlenecks Personnel from distant sites can fill in without the need to commute



Complex examinations
An expert can assist from remotely, e.g., for protocol adjustment or contrast timing



TrainingStaff members get
hands-on training remotely

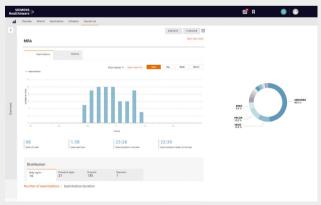
Additional fleet management solutions for consistency across your MR scanner fleet

syngo MR XA-line



One common software platform and user interface across our entire BioMatrix scanner portfolio. Ensuring consistency and reproducible results, no matter which scanner is operated.

teamplay



Optimize your scanner performance and ensure protocol consistency across your fleet with our cloud-based performance management solution teamplay.

Confidence to deliver patient satisfaction

Patient experience matters. MAGNETOM Lumina transforms the MRI experience and puts patients at ease.



Tim 4G ultra-light and high-density coils are designed for patient comfort

Based on our proven Tim 4G technology MAGNETOM Lumina offers a broad range of ultra-light and high-density coils that strongly support patient comfort.

New anatomy-adaptive coils for greater flexibility to accommodate larger patients





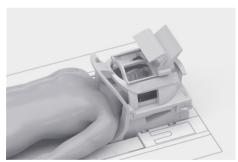
the new Shoulder Shape 16 and the new Tx/Rx Knee 18 deliver greater flexibility to accommodate larger patients through their anthropomorphic design.

For orthopedic applications,

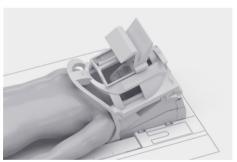
Shoulder Shape 16

Tx/Rx Knee18

Better address kyphotic patients with the tiltable BioMatrix Head/Neck 20



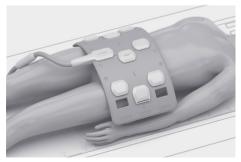




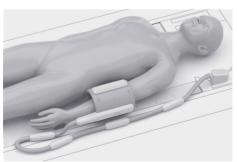
Head tilting between 0° and 18°

Increase patient comfort, better address kyphotic patients, and improve your imaging results with the tiltable BioMatrix Head/Neck 20.

Maximize flexibility with the new UltraFlex 18 coils in small & large



UltraFlex Large 18



UltraFlex Small 18

The new UltraFlex 18 Large and UltraFlex 18 Small combine ultra-high coil element density with high flexiblilty, for multipurpose imaging. Compared to standard 4-channel flex coils, resolution can be increased and acquisition accelerated.

Product Services

Siemens Healthineers takes care of your equipment throughout the entire equipment lifecycle. We offer a comprehensive product service approach that ensures a smooth clinical workflow based on maximum equipment availability.

MAGNETOM Lumina's equipment service is based on Siemens Healthineers' unmatched service infrastructure around the world:

250 billion

data points for AI based error pattern analysis

400

system components constantly monitored

> 1,600

service engineers worldwide

Based on this exceptional infrastructure and connected through our Smart Remote Services MAGNETOM Lumina offers unique services to continuously ensure system availability:



Condition Based Maintenance

50% reduced downtime by performing maintenance based on system use



Remote Diagnosis & Repair

50% remote fix rate, minimizing workflow interruptions



Guardian Program

23% reduced downtime through preventive monitoring of 400 critical system components



Smart Remote Services

Technical specifications

Field strength	3 Tesla
Bore size	70 cm Open Bore design
System length from cover to cover	1.86 m
System weight (in operation)	8.1 tons
Minimum room size ⁷	31 m²
RF technology	
Maximum number of channels ⁸	180
Number of independent receiver channels that can be used simultaneously in one single scan and in one single FoV, each generating an independent partial image	32
Gradient strength	XK gradients 36/200 simultaneously [1.7 MVA]
Helium consumption	Zero Helium boil-off technology



Siemens Healthineers pioneers breakthroughs in healthcare. For everyone. Everywhere. Sustainably. The company is a global provider of healthcare equipment, solutions and services, with activities in more than 180 countries and direct representation in more than 70. The group comprises Siemens Healthineers AG, listed as SHL in Frankfurt, Germany, and its subsidiaries. As a leading medical technology company, Siemens Healthineers is committed to improving access to healthcare for underserved communities worldwide and is striving to overcome the most threatening diseases. The company is principally active in the areas of imaging, diagnostics, cancer care and minimally invasive therapies, augmented by digital technology and artificial intelligence. In fiscal 2024, which ended on September 30, 2024, Siemens Healthineers had approximately 73,000 employees worldwide and generated revenue of around €22.4 billion.

Further information is available at www.siemens-healthineers.com.

The outcomes and statements provided by customers of Siemens Healthineers are unique to each customer's setting. Since there is no "typical" hospital and many variables exist (e.g., hospital size, case mix, and level of service/technology adoption), there can be no guarantee that others will achieve the same results.

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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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¹Data on file.

²syngo Virtual Cockpit is not commercially available yet in all countries. Its future availability cannot be guaranteed.

 $^{^{3}}$ The exemplary images and scan times displayed were acquired on MAGNETOM Vida.

⁴Still under development for MAGNETOM Lumina and not yet commercially available. Its future availability cannot be auaranteed.

⁵The 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.

⁶Cardiac Triggering is still under development and not commercially available yet. Its future availability cannot be ensured.

⁷Minimum total space requirements for magnet, electronics, and console room.

⁸Channels (coil elements) that can be connected simultaneously.