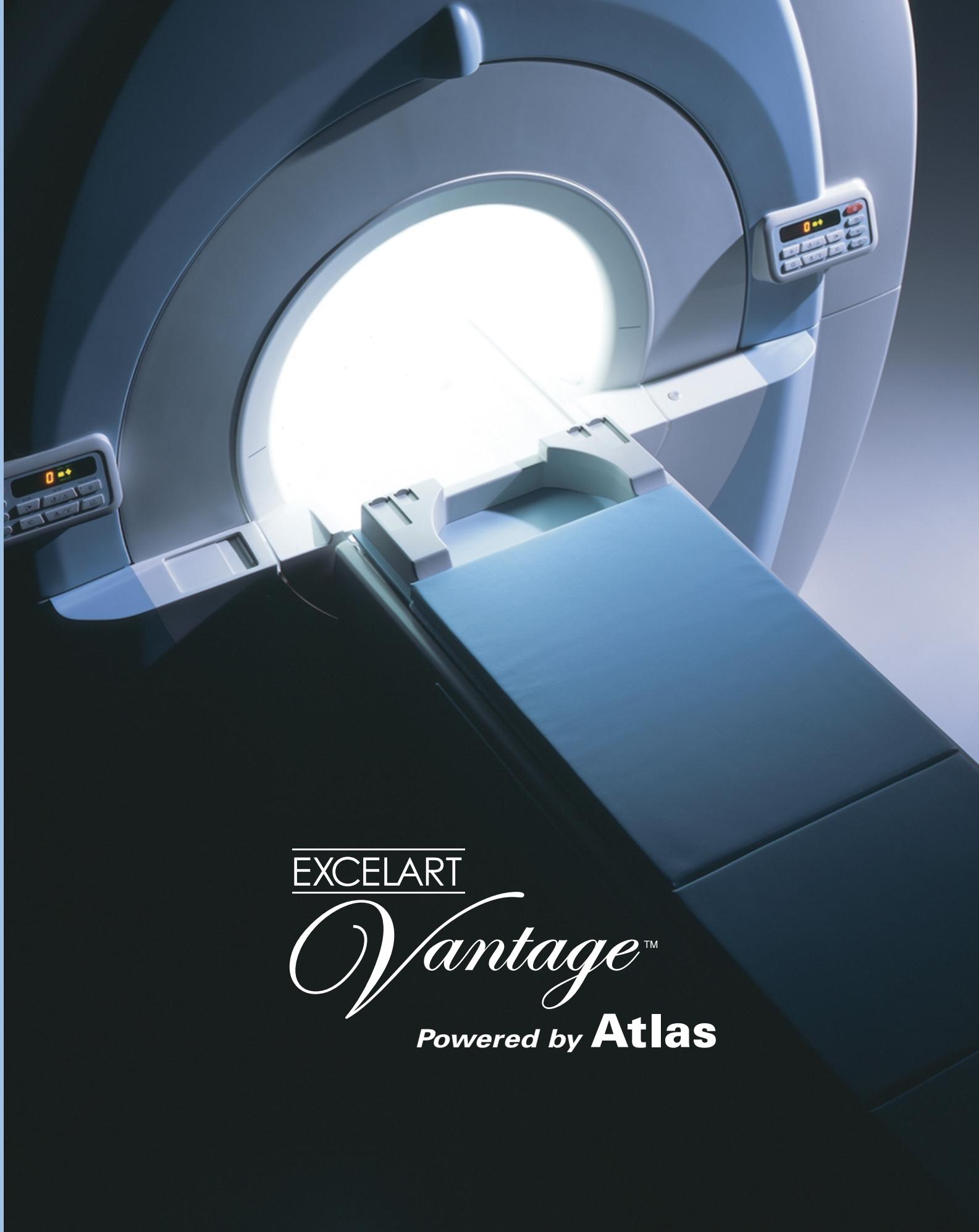


TOSHIBA



EXCELART
*Vantage*TM
Powered by **Atlas**



TOSHIBA MEDICAL SYSTEMS CORPORATION

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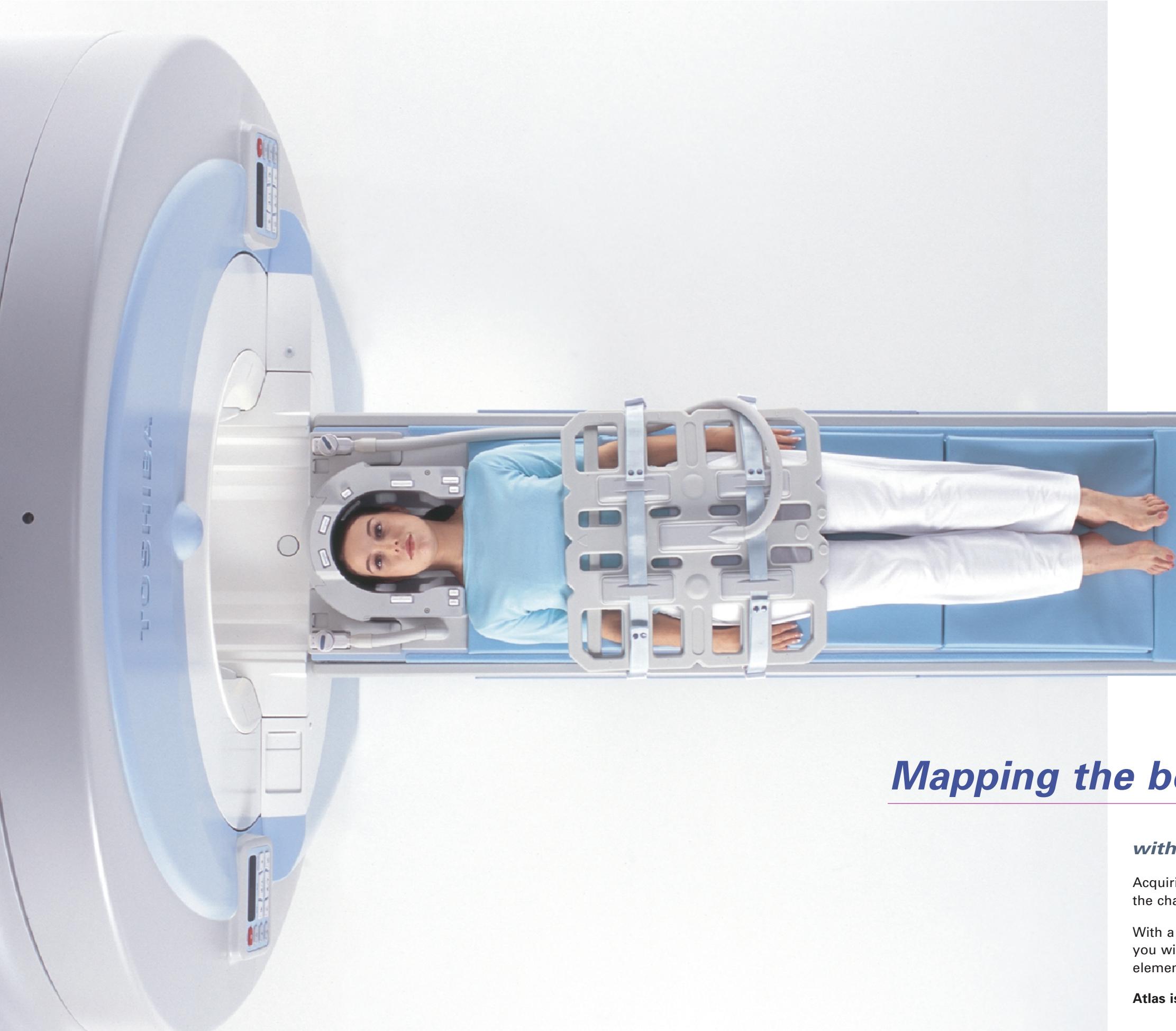


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EXCELART
*Vantage*TM
Powered by **Atlas**



Mapping the body with greater clarity

with the power of Atlas Technology

Acquiring very detailed diagnostic data with wide area coverage has been the challenge for MR. Now Atlas gives you the best of both worlds.

With a breakthrough in RF technology combined with intuitive coil design, you will see more while maximizing your patient's comfort. Multiple coil elements with easy access to coil ports means increased efficiency.

Atlas is Power – The power to chart new areas of MR excellence

ATLAS

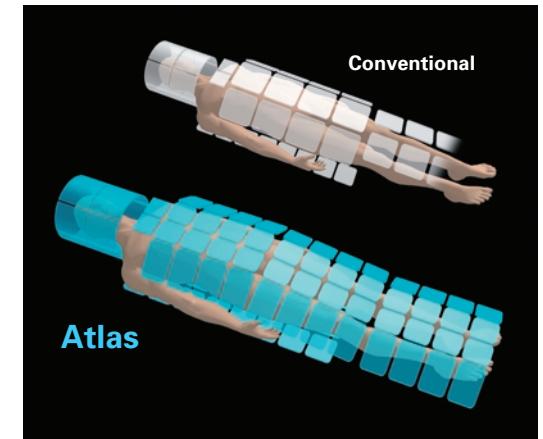
— Technology that improves image quality and speed at the same time while acquiring wider areas with higher resolutions. More patient-friendly features and easy coil positioning make for improved workflow. Atlas solves the challenges of conventional MRI systems by employing high element density coils and a 128 element RF coil system. Simplicity, high resolution, improved workflow and a better map of the body – that is Atlas. A smarter, high resolution way to see more of what you want to see.



Maps with 128 elements

Atlas efficiently captures subtle MR signals by effectively utilizing multiple coil elements. Supporting up to 128 elements simultaneously, Atlas makes high in-plane resolution and wide-area coverage a clinical reality.

Atlas is signal-rich.

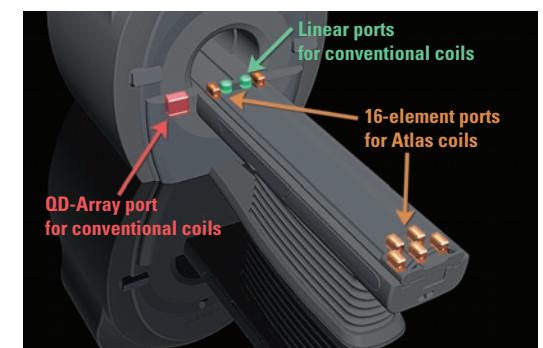


Atlas SPEEDER provides higher image quality than ever before thanks to the unique combination of a large number of sophisticated coil elements.

Multiple coil ports

Atlas has ten coil ports with nine built into the advanced table design. Accepting a maximum of 128 elements simultaneously, these coil ports are strategically located to capitalize on the clinical utility of the Atlas SPEEDER coils.

Atlas is flexibility.



Multiple Atlas SPEEDER coil connectors are provided at various locations on the couch and gantry to minimize interference with the patient. Conventional coils other than Atlas SPEEDER coils can also be employed in a flexible manner.

Integrated coils

A posterior head and neck array and a 32-channel CTL array is built into the patient couch. The CTL array is moveable, allowing for feet first imaging of the thoracic and/or lumbar spine. Integrated coils virtually eliminate the need to change coils between studies.

Atlas is efficient.

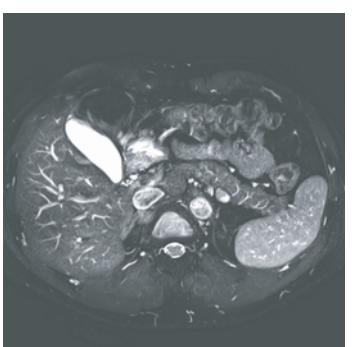
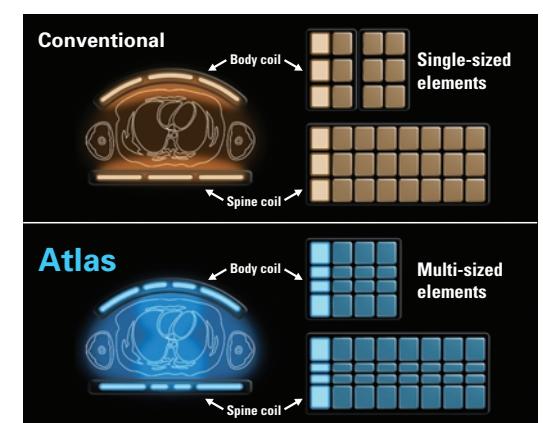


The Atlas SPEEDER Spine coil permits the spine to be examined with the patient in the feet-first direction, minimizing claustrophobia and increasing patient comfort.

Synergistic element design

Atlas ensures that clinically important structures are examined. By incorporating a synergistic element design consisting of multi-sized elements, Atlas SPEEDER coils firmly capture high-precision signals from the deep region (center of image) as well as the peripheral tissues.

Atlas is synergy.



Structures in deep regions, such as the pancreas and the heart, can be clearly visualized.

By optimizing the size and arrangement of the coil elements, increased SNR and coil penetration can both be achieved resulting in higher image quality.

The Power of Atlas

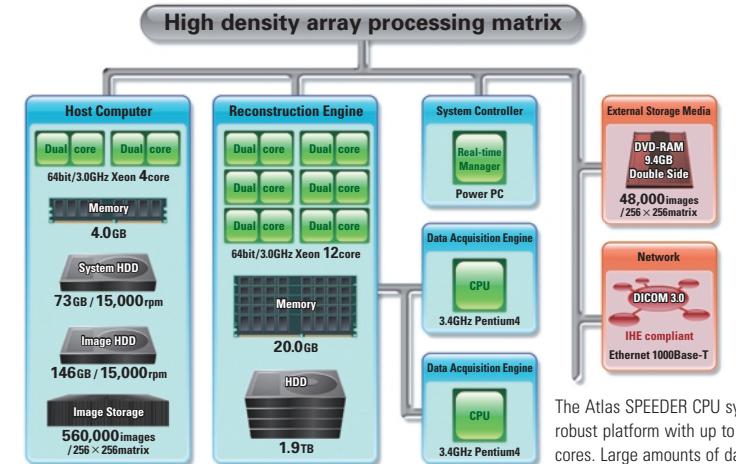
— The phenomenal capability of Atlas is not limited to image quality. Coil exchanges are minimized, processing speeds are accelerated and feet first imaging becomes a clinical reality - All in a quiet and open scanning environment. Atlas opens up a new world of patient focused MRI technology. **Atlas is power.**



New high speed computer architecture

Atlas smoothly processes the increased image data that goes hand-in-hand with high-speed, high-resolution, wide-area imaging. Enhanced by dual-density dual CPU technology, this next-generation computer platform not only supports super-fast processing, but also has excellent expansion capabilities for the future.

Atlas is next-generation.



The Atlas SPEEDER CPU system is a robust platform with up to 19 CPU cores. Large amounts of data can be processed efficiently.

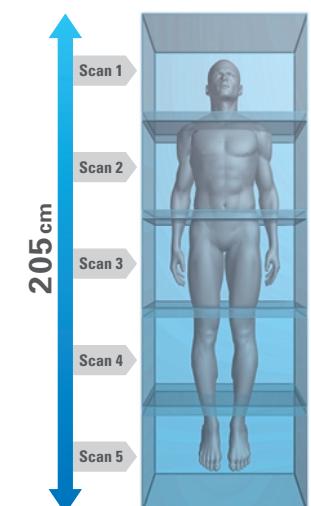
High element density, lightweight coils

Atlas coils include 16-element lightweight body coils weighing only 75 g per element, a built-in posterior head and neck array, and a moveable 32-element CTL array integrated into the table. In addition, the lightweight body coils consist of new materials with excellent flexibility, translating into less weight on the patient and making scans more comfortable.

Atlas is comfort.



High-resolution peripheral angiography studies are achieved by taking advantage of the increased element density of Atlas' body, spine and head arrays. This is particularly useful for diabetic evaluations of the compromised circulation of the lower extremities using either conventional MRA or Toshiba's patented FBI non-contrast technique where imaging of smaller diseased vessels benefits from the increased SNR Atlas provides.

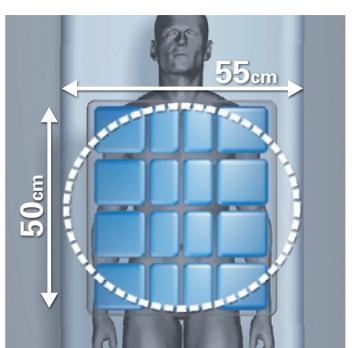


An optional 205 centimeter of table movement allows for superior imaging flexibility and true whole-body MR.

Wide area coverage 55 × 55 × 205* cm

Outstanding homogeneity and high gradient linearity account for the 55 cm × 55 cm × 50 cm extended field-of-view (EFOV). With the use of the 205-cm acquisition range (*option), whole-body images can be acquired over an extensive area from head to toe.

Atlas is accommodating.

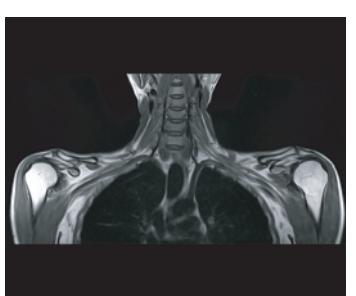


The size of each Atlas body coil has been optimized to match the size of the homogeneous magnetic field.

Speed-up factors up to 16

Atlas SPEEDER has driven speed evolution. The speed-up factors of the system can reach as high as 16 times by combining double-speed parallel imaging (SPEEDER factor) and Freeze Frame Imaging. Powered with the capability to dramatically improve the diagnostic performance of high-speed imaging, Atlas SPEEDER allows routine clinical settings to be applied with ease.

Atlas is speed.



EFOV allows wide-area coverage with outstanding image quality in a single scan.