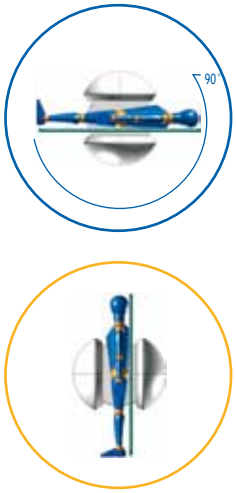
The Tilting MRI

Adding Weight to your Diagnosis

G-scan
Esaote Dedicated MRI

esaote

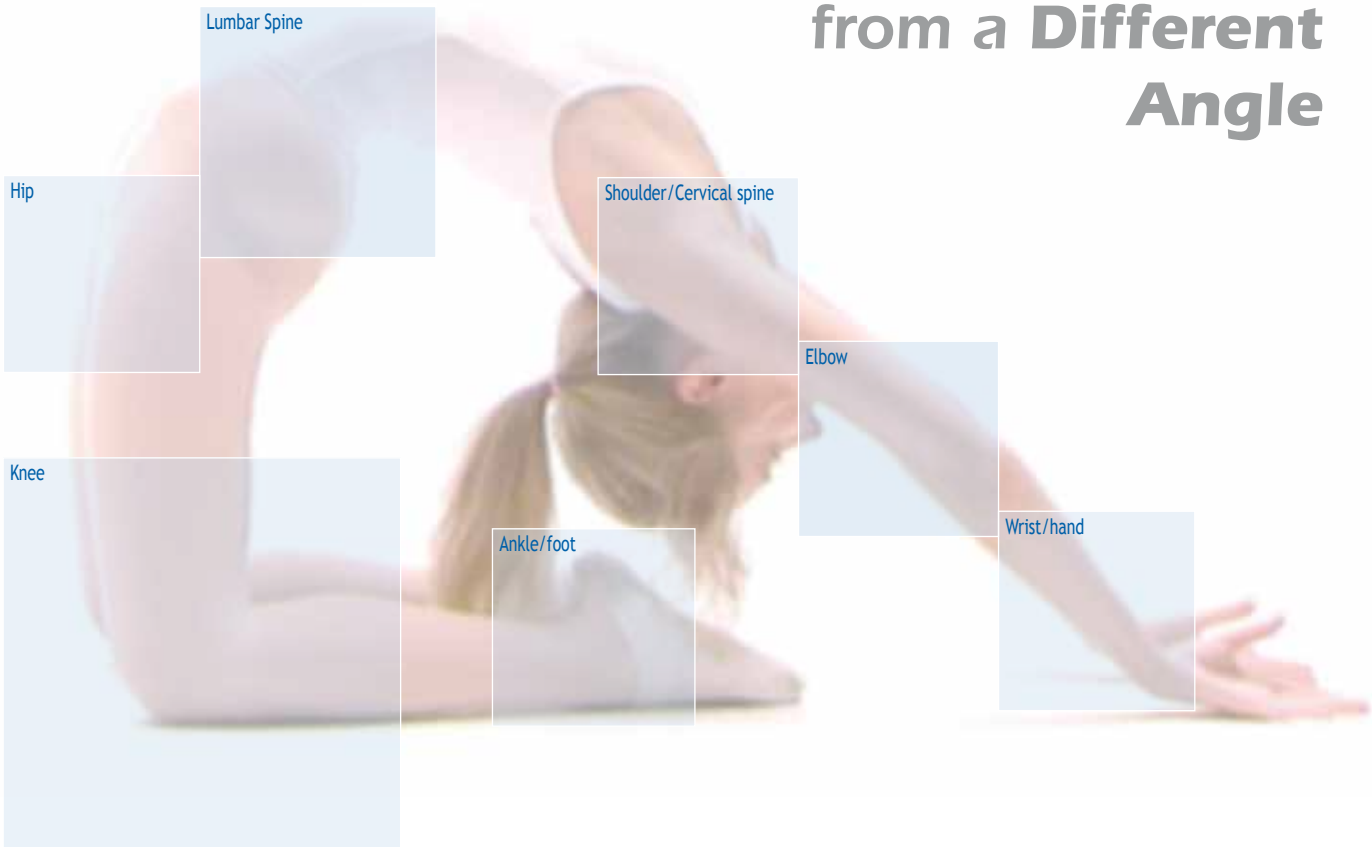


The G-scan *adds Weight* to your Diagnosis

The G-scan is a revolutionary MRI platform for the examination of all musculoskeletal applications which provides you with additional diagnostic elements.

The open and tilting design is the new and innovative way of doing MRI in which the position of the patient becomes an integral part of the outcome of the examination.

G-scan Gives you an MRI View from a Different Angle



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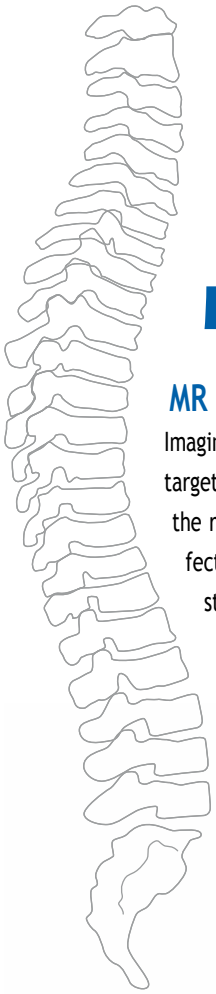


G-scan, a Turning Point in MR imaging

MR imaging, the old way and the G-scan way

Imaging the spine in its natural, weight-bearing position has been one of the targets of MRI development. There are significant bio-mechanical changes from the recumbent to the weight-bearing position and several pathologies are affected by these mechanical changes. MR imaging of the spine in the natural standing position is therefore the most logical solution and that is exactly what G-scan is about, giving you a better view.

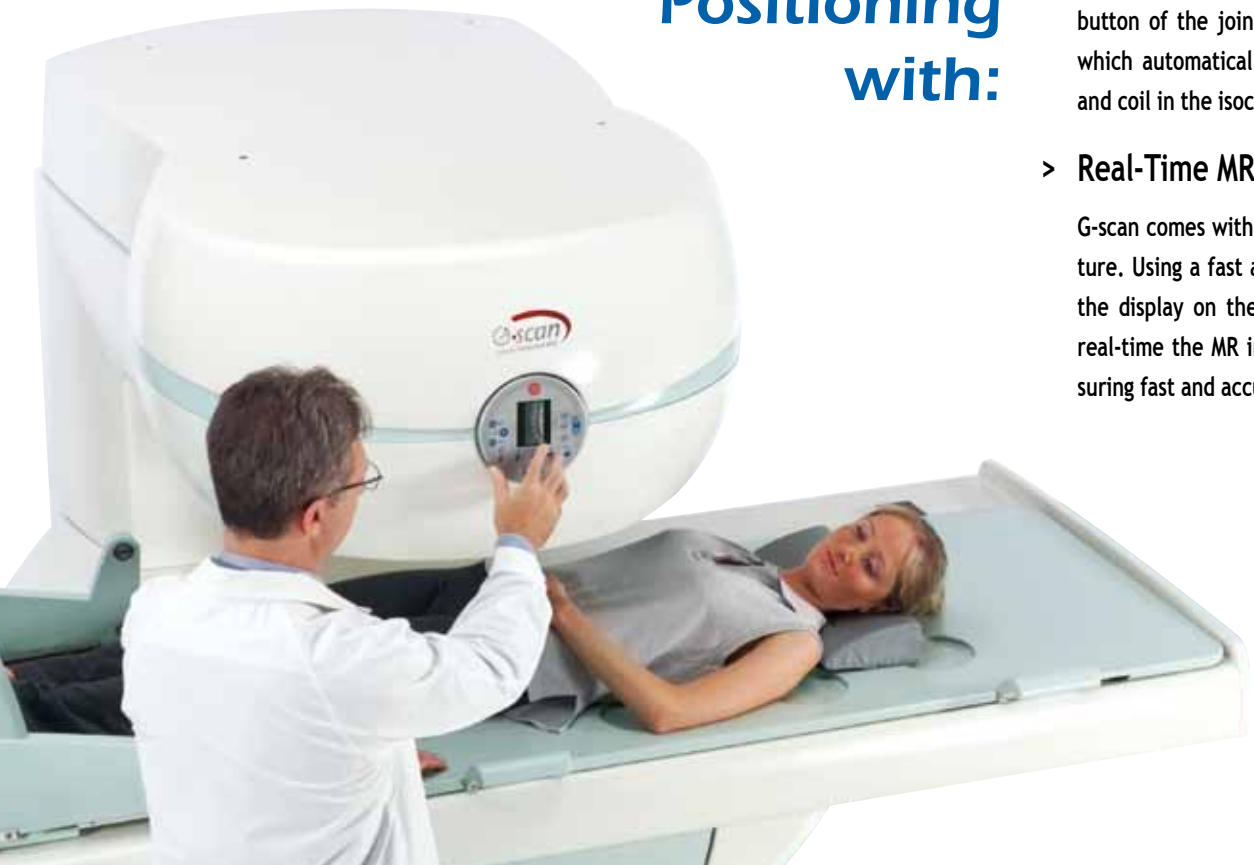
Fast and Easy Patient Positioning with:

> Instant Positioning

Another unique feature is “Instant positioning”. Once the patient has been positioned on the table, just press the button of the joint under investigation which automatically moves the patient and coil in the isocentre.

> Real-Time MR

G-scan comes with the realtime MR feature. Using a fast acquisition sequence, the display on the gantry will show in real-time the MR image of the joint assuring fast and accurate positioning.



User Interface Very Simple and User Friendly

G-scan is an MRI system specifically developed to perform musculoskeletal examinations.

Unlike a multipurpose MRI, all aspects of the G-scan system, from coils to user interface, have been developed and optimized to perform in the most efficient and comfortable way musculoskekeletal MRI examinations. System handling and patient positioning therefore can be done by a single radiologist or technician.

The user interface is very simple and user friendly, routine exams can be performed by just a few mouse clicks.

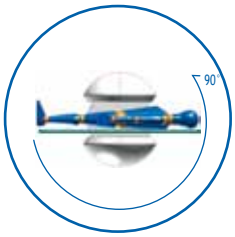
Also the most expert user will be fully satisfied as all scanning parameters can be personalized and the custom sequences can be stored and integrated in the normal menu structure for subsequent use.

Thanks to its unique tilting design, the magnet unit can be rotated to move the patient into a true weight-bearing position.

Normally the patient will be imaged first in the upright weight-bearing position and then in the traditional supine position, also to make differential diagnosis possible.

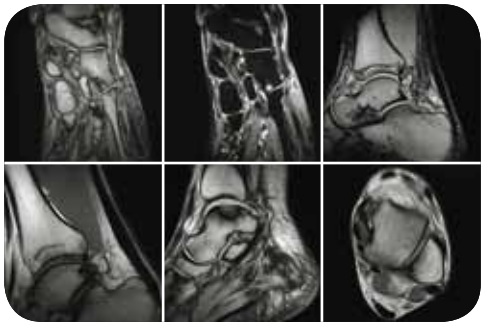
There are several ways of performing weight-bearing MRI but there is only one simple and cost effective way: G-scan, the in-office weight-bearing MRI.

Adding Weight to your Diagnosis



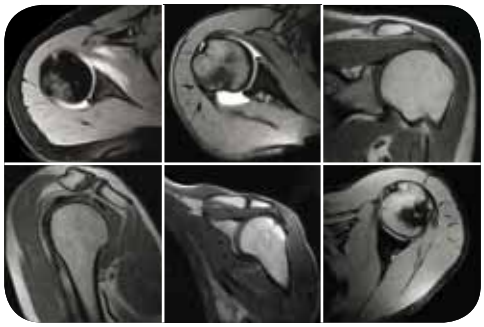
Supine

Weight bearing



> Flexible positioning and dedicated coils allow imaging of the ankle and foot with optimal comfort
> Traumatic and degenerative lesions are accurately imaged with high spatial resolution

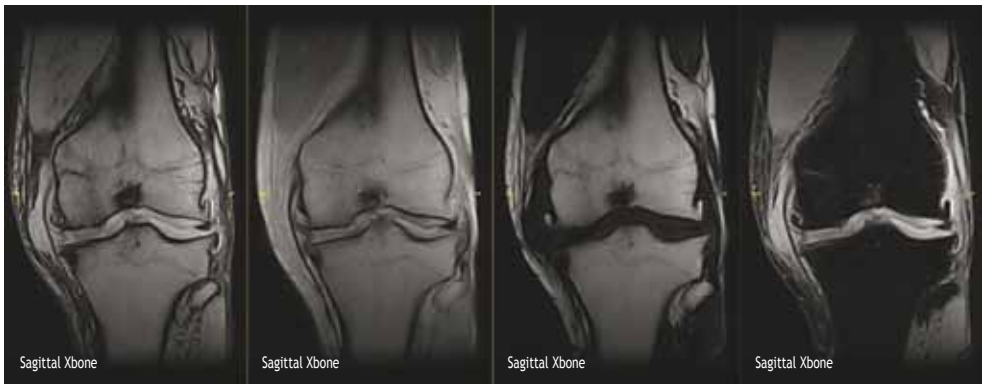
>Knee Lateral patellar instability well highlighted in weight bearing exam



> Spin Echo for diagnosing rotator cuff diseases, labral tears, lesions of the supraspinatus tendon, impingement
> Xbone fat suppressed for diagnosing bone edema
> 512 matrix generates high resolution images with improved accuracy in the evaluation of cartilage and osteochondral pathologies

>Knee OA In weight bearing the actual damage to the cartilage of the medial compartment is clear and the origin of the bone edema is well identified. The lesion to the medial collateral ligament is visible only in weight bearing.

> Arthrosis, bone edema, osteophytes



>OA of Knee Image T1 weighted, out of phase

>OA of Knee Image Xbone T1 weighted, in-phase

>OA of Knee Image of Water

>OA of Knee Image of Fat

G-scan
Esaote Dedicated MRI

Give your diagnostic service a cutting edge

G-scan is the system that makes it possible to offer the extra diagnostic capability and service that can give your diagnostic service a cutting edge. G-scan has the extras to distinguish your MRI service:

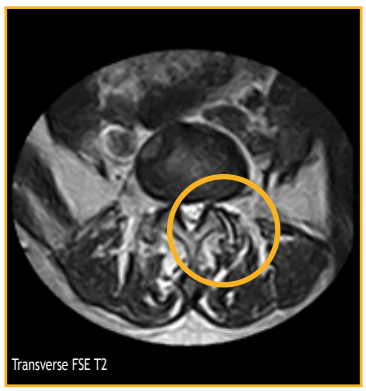
- high quality musculoskeletal MRI
- open MRI, no claustrophobia
- weight-bearing MRI

Supine

Weight bearing

>Spine C-spine in weight-bearing flexion, evident ligament instability at level of C4-C5

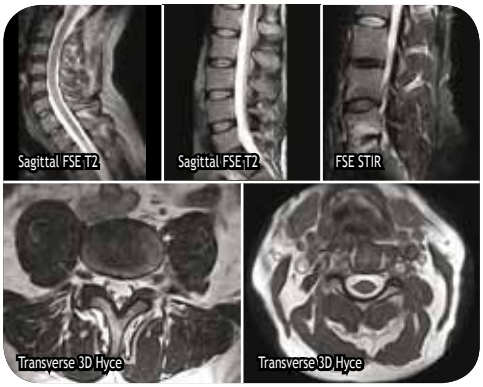
>Lumbar Spine Spondilolisthesis at L4-L5 level, highlighted in the weight bearing position



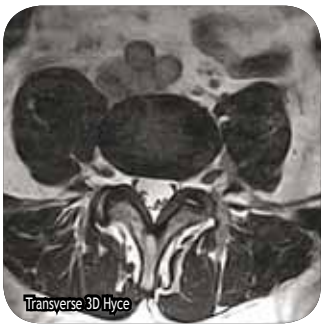
>Lumbar Spine Articular facet instability highlighted in weight bearing, while supine exam only shows arthrosis

Images courtesy: Department of Radiology, University of L'Aquila, Italy - Villa Donatello clinic, Florence, Italy

> Cervical Spine 3D Hyce (Hybrid Contrast Enhanced)



> FSE T2 for reducing acquisition times
> 3D Hyce for High resolution imaging
> FAST STIR for easier detection of bone edema



> Lumbar Spine 3D Hyce

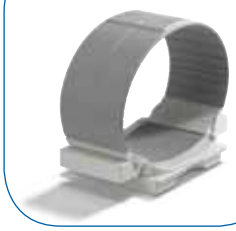
The Right Coil for any Examination

G-scan includes a complete set of receiving coils specially designed for the joints, which guarantees **very high sensitivity** and **patient friendliness.**

The standard set includes: a lumbar spine coil, a knee coil, a wrist/hand coil, an ankle/foot coil and a shoulder coil which are all Dual Phased Array as well as a linear cervical spine coil. An optional DPA cervical spine coil is also available.

Cervical Spine Coil

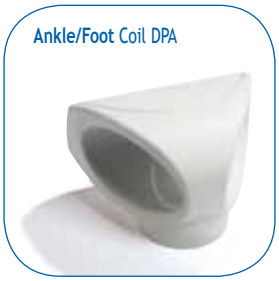
Lumbar Spine Coil DPA



Knee Coil DPA

Flexible Coil

Ankle/Foot Coil DPA



Shoulder Coil

Shoulder Coil DPA

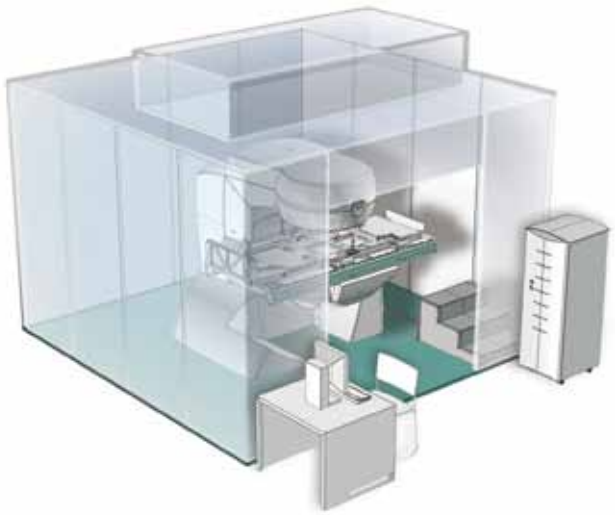
Wrist/Hand Coil DPA

Optional DPA Cervical Spine Coil

G-scan Easy to Install

Some facts and figures about installing and running a **G-scan** MRI service:

- Like all Esaote MRI systems, also G-scan is a **"one room"** MRI system which means that the complete system, magnet, electronics and console can be installed in a single room of only **25 mq**.
- **G-scan** is based on a 0,25 T permanent magnet so no cryogens and no complicated cooling systems are required.
- **Dedicated shielding** available. The Esaote dedicated shielding is a pavilion style independent shielding that can be installed without any construction works.
- **Fast and high quality service**. Thanks to the build in remote service capability, technical assistance is fast and efficient.



G-Scan can be installed in a single room of only 25 mq

All these features make G-scan not only a unique system from a clinical and diagnostic viewpoint but it also makes G-scan a system that is easy to site and very economical to run. The low break even point of G-scan is fully in line with the economical constraints of today's healthcare environment and make G-scan therefore an optimal investment also for the private clinic.

G-scan Connects

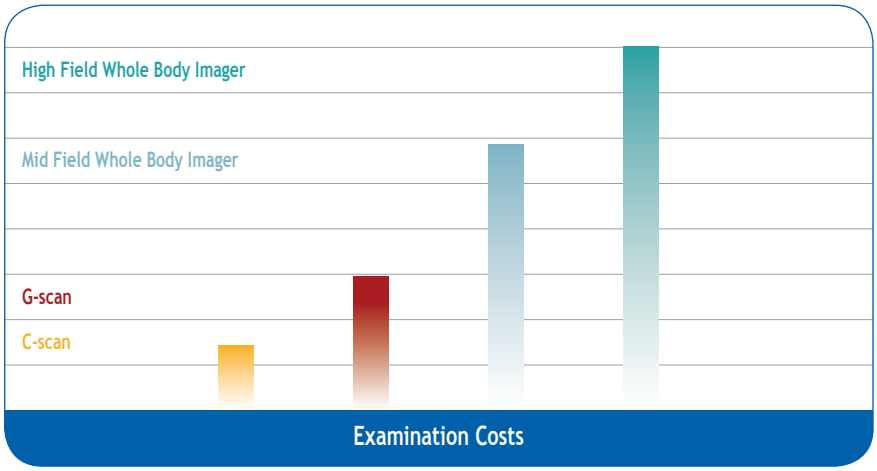
Connection to the hospital network is easy as G-scan comes complete with network hardware and software.
By using the DICOM standard, images can be sent to other modalities like PACS system and printers. The "Autosend" (also called "Auto-push") function will automatically send all images to the destination of choice without the need of operator interaction.
Modality Worklist: G-scan can receive patients lists of the day directly from the HIS/RIS, for optimized integration within a hospital network.

G-scan Remote

All Esaote systems come with remote service capability. Many system parameters and system components can be checked via ARAS, the remote service program specially developed for Esaote MRI systems. Using the remote connection, it is possible for Esaote application specialists to verify image quality and help the local operator set exam parameters. Moreover, ARAS shortens reactions times and improves the time to repair as service visits can be made more efficient with the service technician arriving on site already prepared.

G-scan Economics

The low break even point of G-scan is fully in line with the economical constraints of today's healthcare environment and make G-scan therefore an optimal investment also for the private clinic.

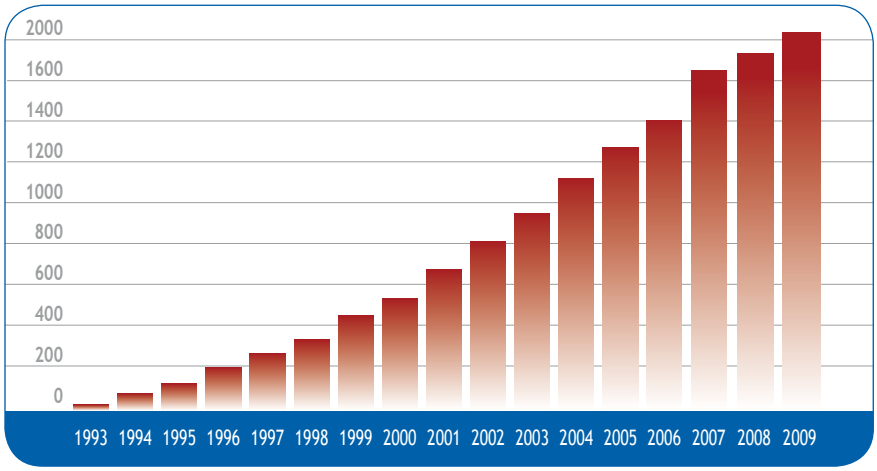


Ask for your customized break-even analysis: you will be impressed by its profitability!

Esaote
MRI Family

G-scan is part of the Esaote family of innovative MRI products.

Esaote MRI systems have been on the market for over 15 years with over 2000 systems installed worldwide.



Total Esaote E-MRI installed

G-scan
Esaote Dedicated MRI

833 0790 000 (MA Rev. C)

ISO13485:2003 ISO 9001:2008

CE 0051

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