MRI System

Technical Specifications

MrJ 3300

MrJ 3300 - Magnet

Field Strength	**0.32 T +/- 5%**
• Type	Permanent
• Gradient Strength - Max	22 mT/m
• Slew Rate - Max	44 mT/m/ms
• Gradient Rise Time - Min	0.5 msec from 0 to +/-22mT/m

MrJ 3300 - RF System

Digital Spectrometer

MrJ 3300 is equipped with an innovative MRI **digital spectrometer** that can manage **up to 8 receiving channels** (expandable to 16) MrJ 3300 provides **multi-array** receiving coils with **MAX** technology (Multi Array Cross Tuned).

RF Amplifier	Max. RF Power	3.0kW
	Preamplifiers	integrated in the magnetic unit

Extremity Coils	Clinical applications
• Multi Array (MAX)	Shoulder
• Multi Array (MAX)	Knee - Ankle
• Multi Array (MAX)	Hand - Wrist - Elbow
• Flat linear coil	Hip

Spine Coils	Clinical applications
• MAX L-Spine large	Lumbar Spine
• MAX L-Spine small	Lumbar Spine
• MAX C-Spine	Cervical Spine

Optional Coils	Clinical applications
• TMJ	Temporo Mandibular Joint
• Knee Large	Knee
• GP solenoidal	General purpose

MrJ 3300 - Patient Handling

Ergonomics

The patient table - rail mounted - can slide into the magnet with a smooth and effortless movement.

• Net Patient Space:	34 cm
• Table Length:	240 cm
• Max. Patient Weight:	200 kg

Patient positioning

• LED centering device

• Flash Localizer System (FLS) - images are continuously acquired and displayed in real time

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MEDICAL SYSTEMS

MRI System

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MrJ 3300 - Pulse Sequences

- Spin Echo T1 e T2 (SE T1, SE T2)
- Double Echo (DE)
- Inversion Recovery (IR)
- Fast Inversion Recovery (FIR)
- Fluid Attenuated Inversion Recovery (FLAIR T1)
- Fluid Attenuated Inversion Recovery (FLAIR T2)
- Short TI Inversion Recovery (STIR)
- Echo Reduced Acquisition Spin Echo (ERASE)
- Gradient Field Echo 2D e 3D (GFE, 3D GFE)

- Rapid Imaging Spin Echo/Double Echo (RISE, RIDE)
- Short TI Inversion Recovery GFE (STIR GFE)
- FAST-RISE echo train length 5, 7, 9 (ETL 5, ETL 7, ETL 9)
- 3D Spoiled Gradient Field Echo (3D SPGFE)
- 3D Time Reversed Gradient Field Echo (3D EMIT)
- 3D Gradient Balanced Steady State (3D GBASS)
- Fat-Water separation T1 (FWS T1)
- 3D Stimulated Steady State (STSS)

MrJ 3300 - Imaging Techniques

Acquisition **Matrix 2D**	from **128 x 128** to **512 x 512**
Acquisition **Matrix 3D**	from **128 x 128 x 24** to **256 x 256 x 128**
Visualized **FOV**	up to **260** mm
Number of Slices	up to **64**

Artifact Suppression	• **Flow compensation**
	• **Oversampling**
	• **ABS** (Automatic Backfolding Suppression)
	• **Reduced FOV**

Imaging modalities	• **Half Scan**
	• **Half Echo**

MrJ 3300 - Siting Requirements

MRJ 3300 can be installed in a 4m x 4m room with an entire system footprint of just **16**m^2.
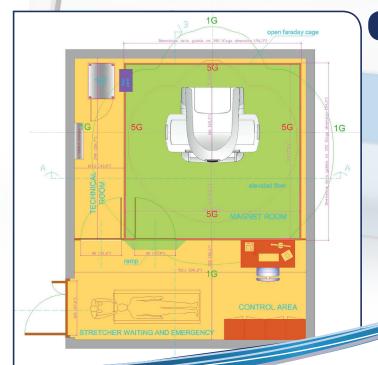
- Weight   9200 Kg

Floor reinforcement might be required depending on building conditions and floor load capacity.

- Power Requirement   single phase 230 VAC 50Hz (USA 110 VAC 60Hz)
- Power Consumption   **4 KVA** (0.8 KVA on stand-by)

Customer to provide cabling, interface devices, and network connection, telephone, high speed Internet connection (ADSL or modem) for Remote Diagnostics Assistance

RF Shielding

A Faraday cage is required to provide the necessary RF shielding.
- Minimum attenuation: 80 dB
- Minimum dimensions: 3m x 3m x 2.31m (height) footprint 9m^2
- Suggested configuration: 3m x 4m x 2.31m (height) footprint 12m^2

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