



FuSuMaTech



**Tesla Engineering Ltd.**  
**Gradient Coil Division**  
**UHF MRI Gradient Coil IP**

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## UHF MRI Gradient Coil IP

- Tesla Engineering Ltd. must protect gradient coil IP from entering the public domain.
- There is over 30 years of investment in technology and process development to safeguard
- Coil specifications and test documents can be released into the public domain.
- Top level drawings showing interfaces can be released, but not detailed assembly and parts drawings, CAD models or work instructions.

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## UHF MRI Gradient Coil IP

- EM gradient coil design software code and solutions
- Process technology for high voltage operation
- Process technology for thumbprint coils
- Coil connection scheme to minimize partial discharge
- Direct cooling, to achieve ultra high duty cycle
- Force reduction software code
- Process technology for low acoustic noise

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# Tesla Preferred IP Scenario For FuSuMaTech

Multi-layered Approach	IP
Open Access	<b>Gradient Functional Characteristics</b> Gradient Strength, Slew Rate, Imaging Volume Duty Cycle
Commercial Access	Top level mechanical drawings Electromagnetic design (possibly)
Limited Access Under NDA FuSuMaTech Partners	Leakage fields Force balancing (vibration noise) Mechanical interface Cooling RF Shielding
No Access (Tesla Trade Secret and Patent Portfolio )	Design, manufacturing and process IP



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