



## MRI – Magnetic Resonance Imaging

MAFIL is equipped with two 3T whole-body human MRI scanners which can be used to provide in-vivo images of human body. Cima.X Fit and Prisma scanners are designed for high quality research purposes. Most typical use in MAFIL is for neuroscience studies. Both of our scanners are opened for installation of customer pulse sequences and acquisition protocols. Development and compilation of new sequences can be done with IDEA environment and license. Prisma scanner is equipped with multinuclear support (see available multinuclear coils).

### ■ Siemens MRI 3T Scanner MAGNETOM Cima.X Fit

#### Technical specifications:

- Field strength: 3 Tesla
- Bore size: 60 cm
- System length: 226 cm
- 128 / 228 receive channels
- Imaging FoV – 55x55x50 cm, 2050 mm scan range
- Zero helium boil-off technology
- Deep Resolve acceleration
- Open Recon – inline reconstruction algorithms
- Gemini Gradients: 200 mT/m and 200T/m/s
- Gradient power amplifier: Multi-GPA Technology
- Gradient Cooling: Liquid Cooling Technology



**Producer's web:** <https://www.siemens-healthineers.com/magnetic-resonance-imaging>

## ■ Siemens MRI 3T Scanner MAGNETOM Prisma

### Technical specifications:

- Field strength: 3 Tesla
- Bore size: 60 cm
- System length: 213 cm
- 64 / 128 receive channels
- Imaging FoV – 50x50x50 cm
- Zero helium boil-off technology
- High Power Shim
- TimTX TrueShape
- Tim 4G + Dot
- High-power image reconstructor
- Multispectral cabinet
- Gradient strength: XR Gradients (80 mT/m and 200T/m/s simultaneously, on all axes)



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