

MAGNETOLITH® ULTRA+

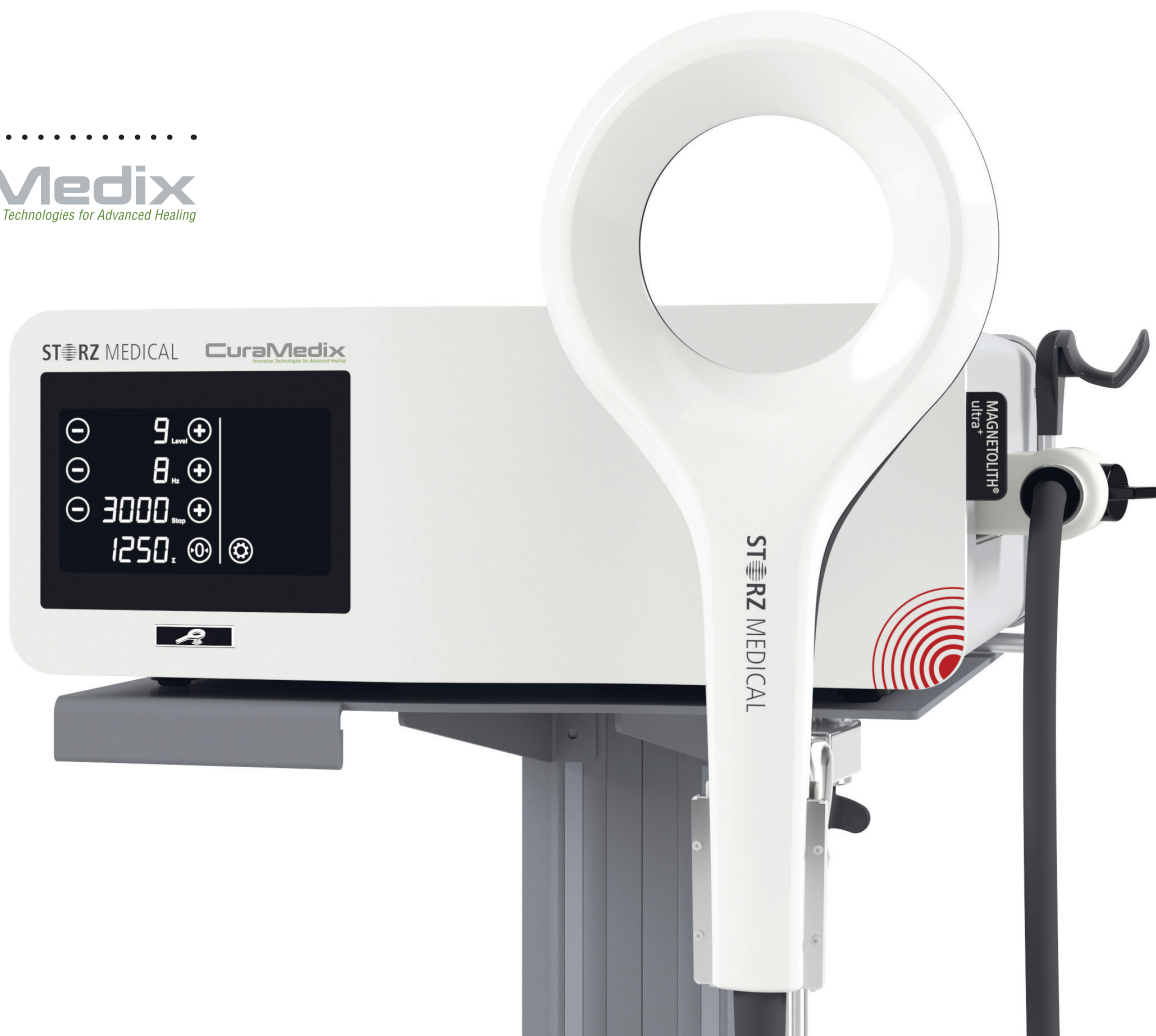
EMTT®-EXTRACORPOREAL MAGNETOTRANSDUCTION TREATMENT

Advanced Regeneration and Rehabilitation
of Chronic Musculoskeletal Disorders Using
High-Energy Magnetic Field Technology

Powered by STORZ Medical

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CuraMedix
Innovative Technologies for Advanced Healing



MAGNETOLITH® ULTRA+

EMTT® – New Possibilities in Regenerative and Restorative Medicine

As one of the most innovative technologies to treat chronic musculoskeletal diseases, Extracorporeal Magnetotransduction Treatment (EMTT®) is non-invasive, evidence-based, and an exceptional complement to EPAT/ESWT. Application areas of EMTT include diseases of the musculoskeletal system such as pain in the lower back, arthrosis as well as inflammation in tendons and joints. EMTT can be distinguished from other general forms of magnetic field technology or PEMF due to its high oscillation frequency of 100 – 300 kHz. This feature enables deeper penetration and a wider range of applications. The clinical benefits of EMTT have been demonstrated in several clinical studies.^{1,2,3,4}



EMTT Indications

Musculoskeletal disorders:

- **Degenerative joint disorders** Wear and tear conditions such as osteoarthritis (knees, hips, hands, shoulders, elbows), herniated discs, spondylarthrosis
- **Pain treatment** (Chronic) pain, for example, back pain, lumbago, tension, radiculopathy
- **Sports injuries** (Chronic) inflammation of tendons and joints, tendon overuse syndromes, inflammation of the pubic bone



Benefits:

- Evidence-based
- Non-invasive
- Wide range of applications
- Outpatient procedure
- No need to remove clothing
- No side effects
- Easy to use
- High level of patient comfort
- Excellent complement to EPAT®/ESWT®

Facts and Figures:

EMTT® Highlights

- High oscillating frequency with high penetration depth
- Continuous and reliable operation by water-cooled applicator
- Simple plug in and plug out to change applicator
- Integrated touch display to adjust energy level, frequency and pulse rate
- Flexible holding arm and one locking knob for easy positioning
- Effectivity and safety proven in studies



MAGNETOLITH® ULTRA+ Parameters:

Oscillation frequency	→ 100-300 kHz
Oscillations per pulse	>18
Adjustable pulse frequency	up to 10 Hz
Magnetic field strength (9 Energy Levels)	30-80 mT
Performance of the magnetic field (dBmax/dt)	→ 65,300 T/s
Penetration depth range	18 cm

NOTE: Field strength approximately 40% stronger than PEMF.

*Studies highlighting significant therapeutic effects using STORZ Medical EMTT® devices:

¹Krath, A. et al., J Orthop. 2017;14(3):410-415. doi: 10.1016/j.jor.2017.06.016.

²Klüter, T. et al., Electromagn Biol Med. 2018;37(4):175-183. doi: 10.1080/15368378.2018.1499030.

³Klüter, T. et al., J Orthop Ther. 2018: JORT-1113. doi: 10.29011/2575-8241.001113

⁴Gerdesmeyer, L. et al., J Foot Ankle Surg. 2017;56(5):964-967. doi: 10.1053/j.jfas.2017.06.014.

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