

Shockwave therapy

How does shockwave work?

Shock waves are sound waves that convey high energy, transmitted through the surface of the skin and diffused in the body radially, over the painful area. This is a ballistic radial shock wave, since the shock wave is generated using a special hand unit shaped like a pistol, the barrel of which is closed at the end by a metal cap, against which a steel projectile is launched using compressed air (up to a pressure of 5 bar). This generates shockwaves that spreads out radially in the skin and first tissue layer below the skin, or in a focussed manner (depending on the transmitter used). The body responds by increasing metabolic activity in the application area, facilitating the reduction of inflammation caused by a painkilling action brought about by local releasing of endorphine, thereby stimulating and speeding up the healing process. The extent of penetration depth varies from 4 to 7 cm.

Therapeutic indications

The shockwave method is the preferred treatment for chronic insertion tendonopathy, characterized by poor vascularization of the bone-tendon joint, where physiotherapy treatment (infiltration and laser therapy) has proved ineffective.

These are the main pathologies treated with shockwaves:

- Elbow – epicondylitis, epitrochleitis.
- Shoulder - insertional tendinopathies, impingement.
- Knee – patellar and “goose’s foot” tendinopathies.
- Pubis – adductor tendinopathies (pubalgy).
- Ankle – achilles tendinopathy, calcaneal apophysis.

Applications fields

- Orthopaedics;
- Rehabilitation;
- Sport medicine.



EL12088 SHOCKWAVE

Trolley-mounted equipment that provides high energy transportation of sound wave energy transmitted through the skin's surface and diffused radially in the body in the painful area. Power up to 5 bar, adjustable frequency 1-20 Hz.

EL0177 SHOCKWAVE COMPACT

Compact equipment for table use that provides high energy transportation of sound wave energy transmitted through the skin's surface and diffused radially in the body in the painful area. Power up to 1 - 4 bar, adjustable frequency 1-15 Hz.

EXCELLENT

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CE 0476

TECHNICAL FEATURES

Mains power supply:		230 Vac, 50-60Hz, ±10%
		115 Vac, 50-60Hz, ±10% (on request)
Maximum mains power absorption:		155 VA
LCD display:		320 x 240 pixel touch screen
Dispensing heads		3
Shock emission modes:		Single, Continuous, Burst
Burst emission typology:		(1-100) emissions for each burst (10 – 2000) msec between each burst
Pressure intensities allowed:	EL12088	(1.5 - 5) bar - 0.1 bar steps
	EL0177	(1.5 - 4) bar - 0.1 bar steps
Shock emission frequency:	EL12088	(1 – 20) Hz - 1 Hz steps
	EL0177	(1 – 15) Hz - 1 Hz steps
N° of emissions:		(0 - 10000)
Classification 93/42/CEE:		II B
Insulation class EN 60601-1:		I / BF
Protection degree from liquids EN 60601-1:		IPX0
Output channels:		1
Stored protocols:		31
Storable protocols on the user memory:		250
Storable protocols on the smart-card:		250
Dimensions:	EL12088	39 x 112 x 43 cm
	EL0177	39 x 13 x 32 cm
Weight:	EL12088	31 Kg
	EL0177	8 Kg

Standard Accessories

	EL0177	EL12088
Power cable	1	1
Fuses	2	2
Manual of therapies	1	1
Applicator probe with actuator	1	1
Transmitter type 3 – 15mm focused	1	1
Transmitter type 2 – 9mm Multifocused	1	1
Transmitter type 1 – 15 mm Multifocused	1	1
Bottle of gel 260ml	1	1
Pen for touch-screen display	1	1
Smart-Card	1	1
Suitcase for probe + shaped polystyrene	1	1
Key knob for tightening the nut	1	1
Actuator removal tube key	1	1
Actuator removal handle key	1	1
Shockwave actuator	1	2

Optional Accessories

- EL0001 PERSONAL SMART CARD
- EL0016 CARRY CASE (EL0177 only)