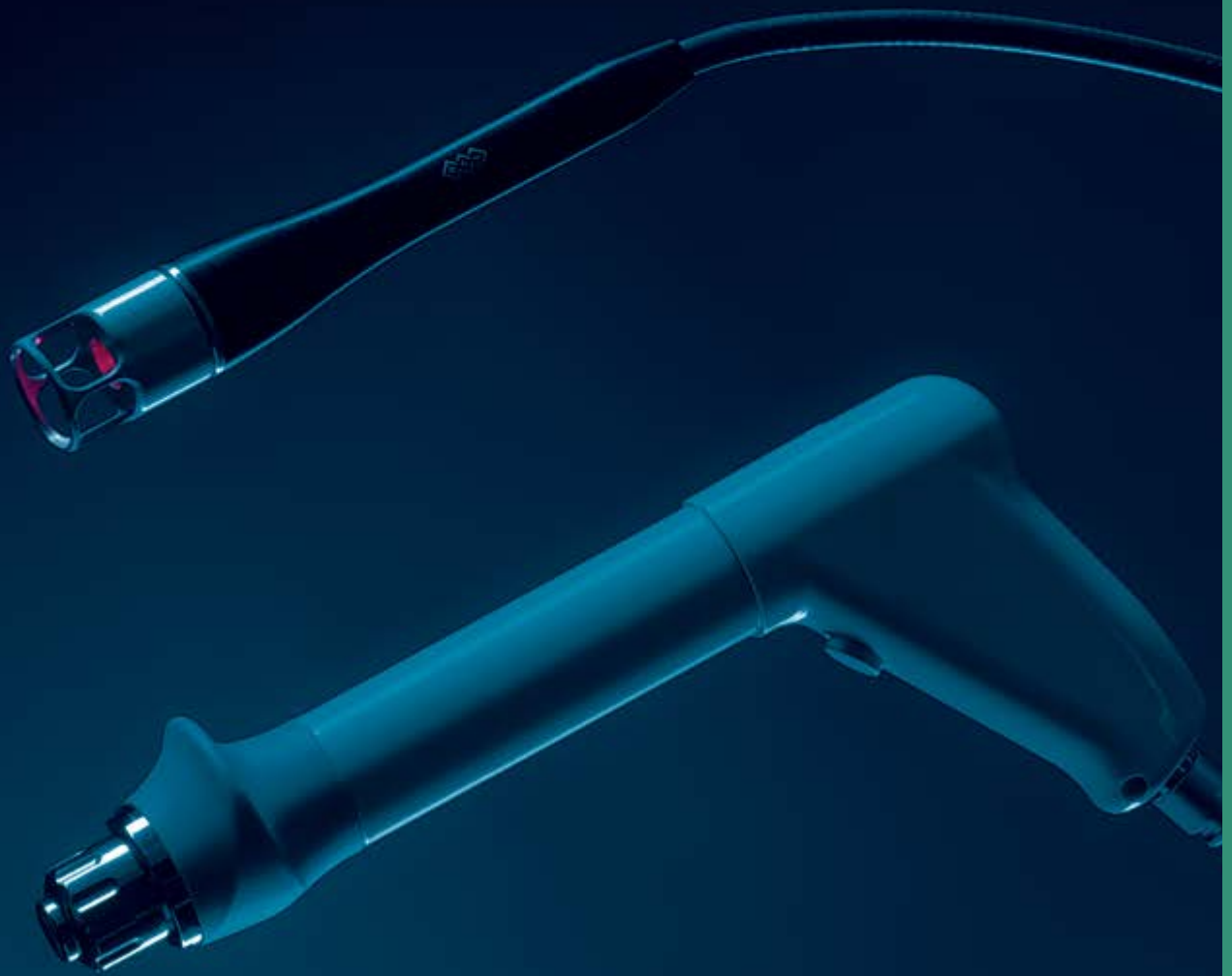




HIGH INTENSITY **LASER & SHOCKWAVE** THERAPY



HIGH INTENSITY LASER & SHOCKWAVE THERAPY

THE MOST VERSATILE TREATMENT OPTIONS AVAILABLE

BTL Shockwave therapy is a new non-invasive solution for chronic musculoskeletal pain. Extracorporeal shockwave therapy is most frequently used in physiotherapy, orthopaedics and sports medicine. Applications are mostly associated with the treatment of chronic muscular and tendon disorders, calcifications and bone disorders. During Shockwave therapy acoustic waves interact with the body tissues. This leads to a cascade of beneficial effects including neovascularization, reversal of chronic inflammation, stimulation of collagen production and dissolution of calcium build-up.

BTL High Intensity Laser is a revolutionary technology based on the proven principle of low level laser therapy (LLLT). By using biostimulation and photomechanical stimulation, the BTL High Intensity Laser therapy actually heals the tissue while providing a powerful and non-addictive form of pain management. High Intensity Laser offers very effective treatment for a wide range of clinical indications from muscle injuries and tendinopathies to degenerative joint disorders.

Combining Shockwave and High Intensity Laser therapy allows you to maximize treatment results and to speed up the recovery process. You may choose from single shockwave or laser therapy treatment, or use the treatment combination of Shockwave and High Intensity Laser in one session for exceptional treatment results.

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SCIENTIFICALLY
-PROVEN
RESULTS



SHOCKWAVE THERAPY

FAST AND PERMANENT RELIEF FROM PAIN

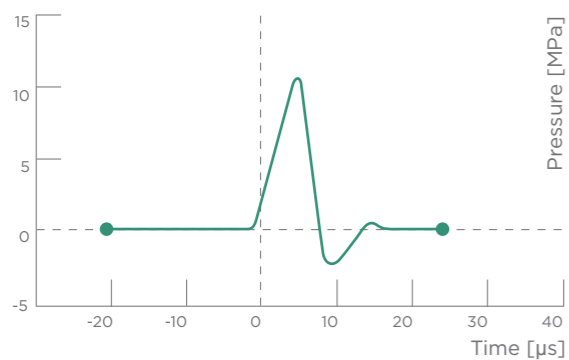
- Unique, non-invasive solution for musculoskeletal pain
- Just three to four treatments needed at weekly intervals
- A therapy session only takes about 10 minutes

FIELDS OF APPLICATION

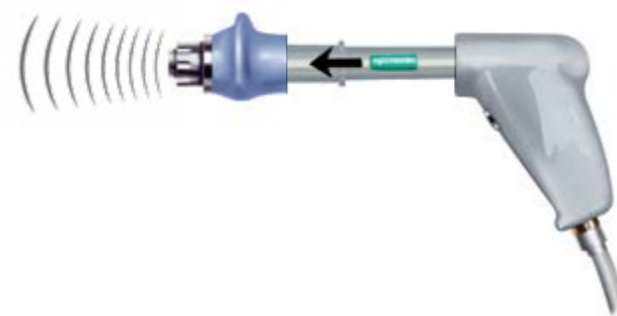
- Orthopaedics
- Rehabilitation
- Sports medicine

MECHANISM OF ACTION

A shockwave is an acoustic wave which carries high energy to painful spots and myoskeletal tissues with subacute, subchronic and chronic conditions. The energy promotes regenerating and reparative processes of bones, tendons and other soft tissues.



Shockwaves are characterized by jump change in pressure, high amplitude and non-periodicity.



The kinetic energy of the projectile, created by compressed air, is transferred to the transmitter at the end of the applicator.

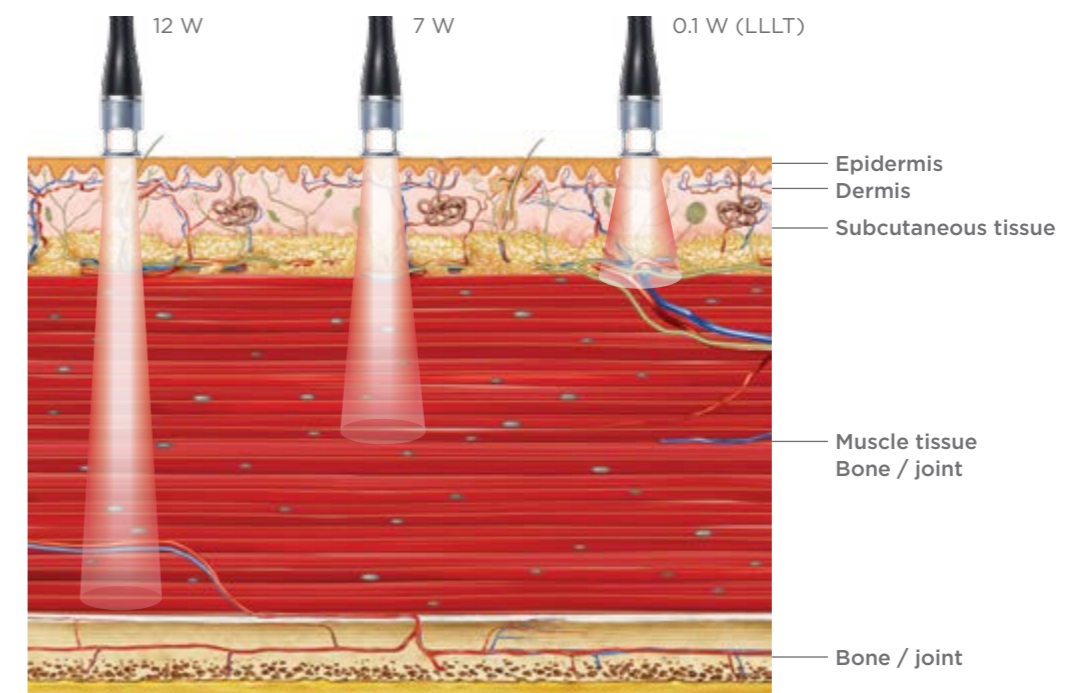
HIGH INTENSITY LASER

MILESTONE IN LASER THERAPY

- New generation of technology in laser therapy
- Deeper penetration
- Superior clinical outcome
- Maximum safety

ADVANCED TECHNOLOGY

- Deep tissue penetration with power up to 12 W in continuous mode
- Max. power more than 50 times higher than in LLLT (cold laser therapy)
- Pulsed mode for immediate elimination of pain
- Effective and powerful therapy for wide range of clinical indications



LASER LIGHT IN HUMAN TISSUE

- The output power is approximately 30-50 times higher compared to the conventional cold laser therapy and is specific with almost unlimited penetration depth. That gives BTL High Intensity Laser ability to stimulate and heal any painful spot in the body.
- Use of pulsed laser with wavelengths close to 1000 nm creates photomechanical wave in subcutaneous tissue. This photomechanical stimulation inhibits painful sensation and brings immediate pain relief.

ONE UNIT,
ENDLESS POSSIBILITIES



HIGH INTENSITY LASER & SHOCKWAVE THERAPY

SHOCKWAVE THERAPY

THE LEADING TECHNIQUE IN PAIN MANAGEMENT AND TISSUE REPAIR THERAPY

- Non-invasive alternative to surgery for chronic tendinopathies and calcifications
- Highly efficient solution for pain therapy and mobility restoration

HIGH INTENSITY LASER THERAPY

A REVOLUTION IN THERAPEUTIC LASER TECHNOLOGY

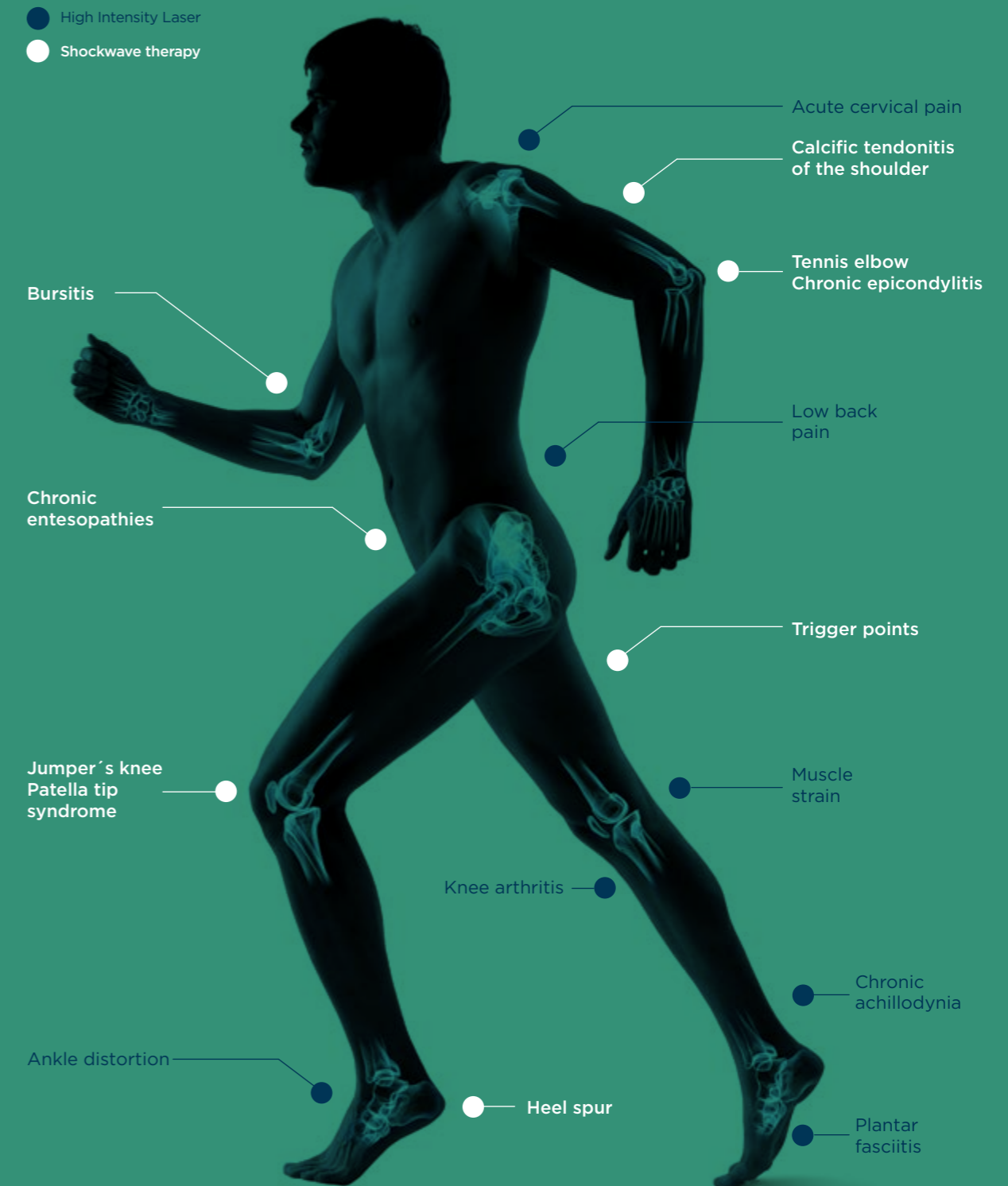
- Effective and powerful therapy for sport injuries, muscle spasms and back pain
- Deep tissue penetration with power up to 12 W in continuous mode

HIGH INTENSITY LASER & SHOCKWAVE IN A SINGLE DEVICE

THE ONLY COMBINATION SYSTEM OF ITS KIND

- Choose Shockwave therapy for chronic inflammation and calcifications or High Intensity Laser for acute injuries and spinal pain
- Maximize your treatment results and speed up the recovery process using combined protocol of High Intensity Laser and Shockwave in one therapy session
- Broaden your clinical possibilities with an extremely wide indication range

MOST COMMON INDICATIONS



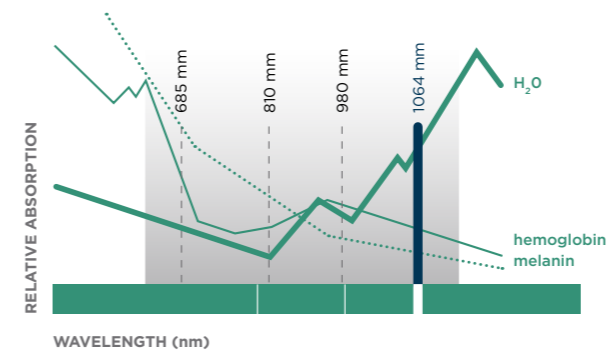
HIGH INTENSITY LASER & SHOCKWAVE THERAPY

UNIQUE COMBINATION IN A SINGLE SYSTEM



HIGH INTENSITY LASER THERAPY

- Up to 12 W power
- 1064 or 810 / 980 nm wavelength



Unique wavelength

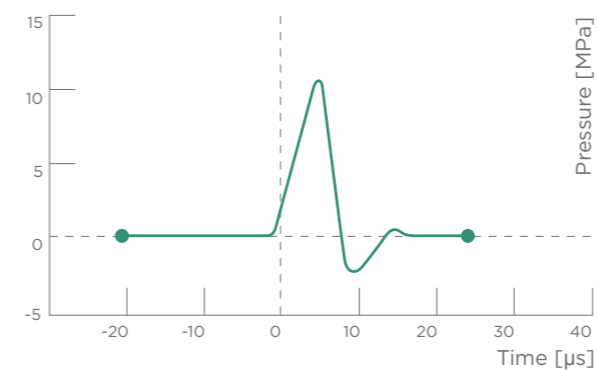
- 1064 nm wavelength of Nd:YAG laser
- Optimum ratio of absorption and penetration

Unlimited penetration depth

- Up to 10 centimeters of tissue

SHOCKWAVE THERAPY

- Pressure: Up to 5 bars
- Frequency: Up to 22 Hz



The most powerful shockwave

- Highly energetic acoustic wave with up to 5 bar pressure
- Fast and permanent relief from pain

Perfected applicator ergonomics

- Elimination of backwards shocks
- Ergonomically shaped handle for comfortable use

HIGH INTENSITY LASER & SHOCKWAVE THERAPY

THREE TREATMENT POSSIBILITIES IN ONE UNIT



SHOCKWAVE THERAPY

MOST COMMON APPLICATIONS

PAINFUL SHOULDER (CALCIFICATION, TENDONITIS, IMPINGEMENT SYNDROME)

Therapy parameters	pressure: 3-4 bar frequency: 10-15 Hz number of shocks: 2000
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Patient position	lying on back or sitting upright
Frequency of treatments	5-10 days
Number of treatments	3-5 sessions



HEEL SPUR, PLANTAR FASCIITIS

Therapy parameters	pressure: 2.5-3.5 bar frequency: 10-15 Hz number of shocks: 2000
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Patient position	lying prone supported under the ankle
Frequency of treatments	5-10 days
Number of treatments	3-5 sessions



RADIAL/ULNAR EPICONDYLITIS

Therapy parameters	pressure: 2-2.5 bar frequency: 5-10 Hz number of shocks: 2000
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Patient position	lying on back or sitting upright with the arm at a right-angle flexion at the elbow; arm should be comfortably supported, preferably with a soft cushioning pad
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Frequency of treatments	5-10 days
Number of treatments	3-5 sessions



ACHILLODYNIA

Therapy parameters	pressure: 2-3 bars frequency: 5-10 Hz
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Patient position	lying prone supported under the ankle
Frequency of treatments	5-10 days
Number of treatments	3-5 sessions



HIGH INTENSITY LASER MOST COMMON APPLICATIONS

MUSCLE STRAIN

Therapy parameters	Power: 4 W Frequency: continuous
Recommended power	4 W in acute phase, up to 12 W in chronic phase
Recommended dosage	Use 100 J/cm ² in acute phase and in chronic conditions increase the dosage to 150 J/cm ²
Frequency of treatments	Up to 5 times per week
Number of treatments	4-8



CERVICAL PAIN

Therapy parameters	Power: 8 W Frequency: 25 Hz
Recommended power	8 W
Recommended dosage	Use 5 J/cm ² in acute phase and in chronic conditions increase the dosage to 8 J/cm ²
Frequency of treatments	2-5 times per week
Number of treatments	3-6



LOW BACK PAIN

Therapy parameters	Power: 6 W Frequency: continuous
Recommended power	6W in acute phase, up to 10 W in chronic phase
Recommended dosage	Use 100 J/cm ² in acute phase. In chronic conditions increase the dosage to 120 J/cm ²
Frequency of treatments	2-5 times per week
Number of treatments	4-8



CARPAL TUNNEL SYNDROME

Therapy parameters	Power: 3 W Frequency: continuous
Recommended power	3W in acute phase & 4 W in chronic phase
Recommended dosage	Use 80 J/cm ² in acute phase, in chronic conditions increase the dosage to 120 J/cm ²
Frequency of treatments	Up to 5 times per week
Number of treatments	4-8



COMBINED PROTOCOL SHOCKWAVE AND HIGH INTENSITY LASER

SHOCKWAVE AND HIGH INTENSITY LASER THERAPY CAN BE PERFORMED TOGETHER IN JUST THREE STEPS:

1. High Intensity Laser therapy: Analgesic Mode

- First phase of the therapeutic procedure
- Effect: Initial pain reduction



2. Shockwave therapy

- Second phase of the therapeutic procedure
- Effects: Tissue repair acceleration, neovascularization, microcirculation support and pain reduction



3. High Intensity Laser therapy: Biostimulation Mode

- Third phase of the therapeutic procedure
- Effects: Side effects control, local metabolic activity enhancement, anti-inflammatory and anti-oedematous effects



TECHNICAL PARAMETERS

TECHNICAL SPECIFICATIONS	BTL-5000 SWT POWER + HIGH INTENSITY LASER 7 W	BTL-5000 SWT POWER + HIGH INTENSITY LASER 12 W	
Part number	P6000.405	P6000.406	
LASER PARAMETERS			
Total output	7 W in continuous mode	12 W in continuous mode	
Operating wavelength	810 / 980 nm simultaneously	1064 nm	
Mode of operation	Continuous, pulsed and single pulse		
Number of protocols	61		
Safety features	Emergency off switch Footswitch operation Safety interlock		
SHOCKWAVE PARAMETERS			
Maximum pressure	Up to 5 bars		
Maximum frequency	Up to 22 Hz		
Single mode & Continuous mode	Yes		
Burst mode	Yes		
Intensity gradient mode	Yes		
Number of protocols	27		
Encyclopaedia with anatomical images	Yes		
User-defined diagnoses	100		
UNIT PARAMETERS			
User-interface	5.7" colour touch screen		
Dimensions	320 x 190 x 280 mm (main unit) 330 x 220 x 300 mm (air compressor)		
Weight: main unit (without accessories)	7 kg		
Weight: compressor	20 kg		
Mains supply	230 V / 50-60 Hz or 115 V / 50-60 Hz		
Laser class	IV		
Equipment protection class	IIB		
Standard accessories	Shockwave therapy applicator, trolley, 15 mm multi-focused transmitter, 15 mm focused transmitter, 9 mm multi-focused transmitter, additional exchangeable kit, gel (1 litre), touch-screen pen pointer, laser footswitch, calibration block, safety eyewear 2 pieces, safety applicator spacer (30 mm)		
Optional accessories			
Part number P6000.412	Safety applicator spacer 10 mm	Part number: P6000.416	BTL-5000 SWT upgrade for BTL-6000 High Intensity Laser units
Part number P6000.414	Safety applicator spacer 60 mm		

