



Extracorporeal Shock Wave Therapy

ZEUS WAVE

ESWT+HILT(Full-type) Pain Treatment System




Well-being
With
Wever



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 ZEUS WAVE(ESWT+HILT-TYPE) PR brochure ENG Rev.1



Extracorporeal Shock Wave Therapy

ZEUS WAVE



Non-surgical &
Non-invasive Treatment



Three functions on
One device



Application to Various Fields
(Musculoskeletal Treatment, Sports Rehabilitation, Esthetic)

ZEUS WAVE Specifications

Rated Power	AC 200~240V
Rated Frequency	50/60Hz
Power Consumption	1.1kVA
Energy Flux Density of Piezo-type(Max.)	0.702mJ/mm ² ± 15%
Penetration Depth of Piezo-type(Max.)	40mm±20%
Focusing Size of Piezo-type(Max.)	1.78 x 1.78 x 15.81mm ± 20%
Intensity of Pneumatic-type(Max.)	7.0 bar ± 10%
Frequency of Pneumatic-type	0~10Hz ± 10%
Dimension	500(W) x 720(D) x 980(H)mm
Weight	About 70kg(about 35.2 pounds)

○ Extracorporeal Shock Wave Therapy

What is ESWT?

Extracorporeal shock wave therapy(ESWT) is one of the few proven medical techniques that can safely treat, in a non-surgical way, chronic pain syndromes in the musculoskeletal system, on which traditional pain treatment had not shown a great effect. ESWT is a non-invasive procedure for the treatment of acute and chronic pain in the musculoskeletal system.

The shock waves used in ESWT are concentrated and transmitted to the target tissue at the point of pain. Shock waves also promote blood circulation and metabolism in the affected area. The main medical principle that extracorporeal shock waves affect biological tissues is based on the biochemical or biomolecular conversion and transfer of mechanical stimuli into tissues of the human body.



Application Sites

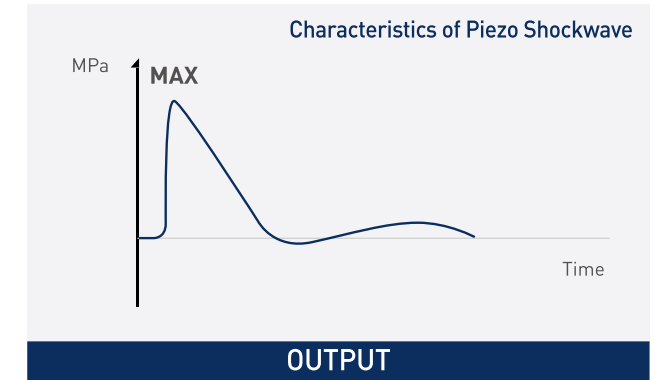
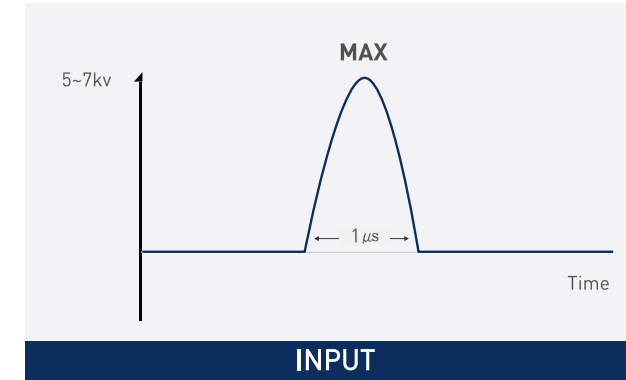
Musculoskeletal pain is one of the most common pain disorders that have a major impact on human life. Most are caused by enthesopathies, such as tennis elbow, plantar fasciitis, and shoulder joint calcifications, and are increasingly diagnosed as a major cause of chronic pain. ESWT has been recognized as a useful method for the treatment of numerous acute and chronic pain syndromes in the musculoskeletal system.



○ Piezo-type(Focusing Method) - FSWT -

What is Piezo?

The principle of the Piezo shock wave is that a focused shockwave is generated when a high-voltage(5KV-7KV) pulse is applied to a piezo element for a short period (1-2 μs). After the shockwave sharply rises, it drops exponentially and shows a short negative pressure



Piezo-type FSWT Technology!

Piezo elements have a geometric structure in a concave shape to generate shock pulses for 1-2 μs when short high-voltage pulses are applied. Piezo elements are precisely designed so that the generated shock waves can be concentrated at specific points. This technology provides a precise and sophisticated focus area and provides painless treatment without making noise. The energy can be adjusted freely with little effect on the size of the focus area.

Application of FSWT



When treating enthesopathies (Tendon, Bone)



When breaking up calcium deposits



When identifying the location of the pain spots with the pain triggers that cause synalgia



When treating superficial pain trigger points / pain points and profundus pain trigger points / pain point



Piezo Handpiece & Elastomer Gel Pads



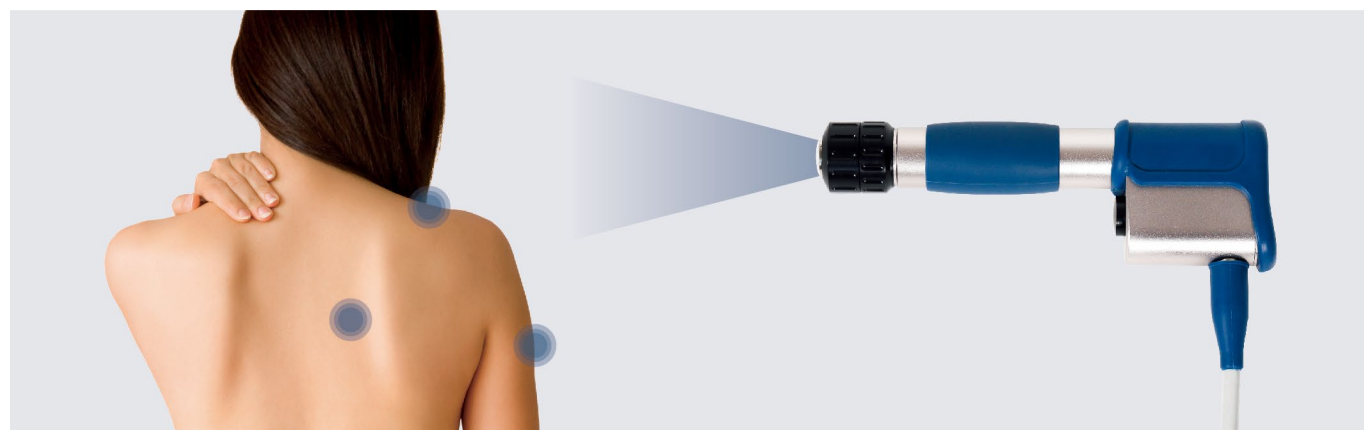
○ Pneumatic-type(Radial Method) - RSWT -

Features of RSWT

The Radial shock wave can output pulses of high energy to facilitate the treatment of various tissues and structures with various pathological and medical conditions.

Through the applicator, the transmitted kinetic energy generates radial shock waves from the area of contact with the skin to the desired treatment area.

When the lesion site is repeatedly irradiated with shock wave energy generated from the gun head, temporary microdamage to the lesion site induces the formation of neovascularization, and the supply of blood flow increases to facilitate the healing of the lesion tissue, thereby relieving the pain. This mode is effective in relieving pain by destroying the calcium deposits accumulated at the trigger point.



Features of RSWT

- When smoothing muscle tissue
- When relaxing muscular tension(Tight Band)
- When locating and treating superficial pain trigger points
- When treating a wide area
- When activating connective tissues (Cell Epilepsy)

Air-gun Handpiece & Applicators



6 Kinds of Applicators			
	5mm	10mm	15mm (A)
	15mm (B)	20mm	35mm

○ High Intensity Laser Therapy - HILT -

What is HILT?

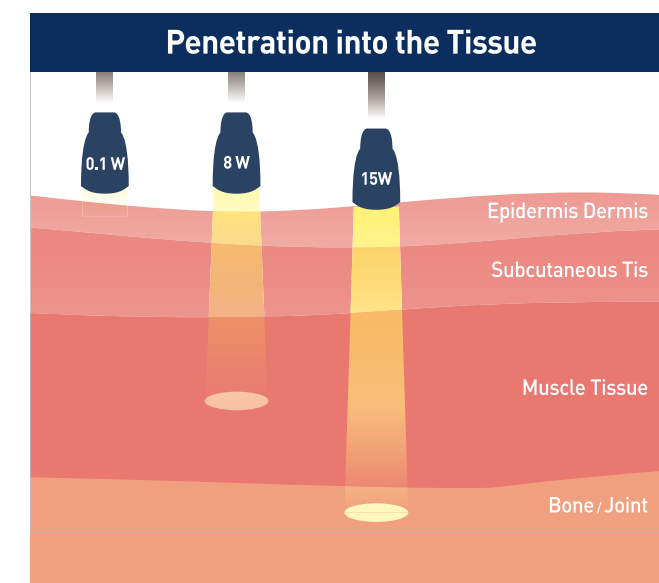
The High-intensity laser can stimulate tissue growth and cell regeneration in the body and can achieve the maximum therapeutic effect without side effects by precisely and delicately controlling its effects to only the damaged area.

Effects of HILT!

The principle of HILT is that enzymes inside tissue cells absorb energy from laser light when skin tissue cultures are irradiated by the laser. It increases cell regeneration and DNA production and keeps cells healthy and in a high energy state. It not only reduces pain and inflammation but also stimulates nerve regeneration, muscle pain relief, and immune system response.

What is HILT

1. Immediate pain treatment that is strong and long-lasting
2. Shoulder Stiffness : Impingement Syndrome, Tendinitis, Rotator Cuff Tear
3. Tennis / Golfer's Elbow
4. Gonarthrosis : Osteoarthritis, Rheumatism
5. Ankle / Cervical Sprain
6. Plantar Fasciitis
7. Back Ache, Arthritis, Muscle Cramp



Integrated Treatment Effects

The ESWT is an innovative and non-invasive solution for chronic musculoskeletal pain. ESWT is used in physiotherapy, orthopedics and sports medicine and is mainly used for the treatment of muscle- and tendon-related chronic diseases, muscle- and tendon-related diseases, calcification, and bone problems.

The HILT is a breakthrough technology that has proven its clinical effectiveness based on the principle of laser therapy that has already been recognized. The HILT machine is a powerful pain relief device that uses biomedical and photomechanical stimulation to stimulate soft tissues to prevent tolerance.

TIP

The combination of ESWT&HILT can help to maximize therapeutic effects and promote recovery. The Zeus Wave uses a single-device technology that allows for both ESWT&HILT.

What is HILT

- Obesity Treatment
- Depression Treatment
- Prostate Treatment
- Remove Cellulite

