



Extracorporeal Shock Wave Therapy

ZEUS WAVE

Focusing(Piezo-type) Pain Treatment System



Well-being
With
Wever



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ZEUS WAVE(Piezo-type) PR brochure ENG Rev.1



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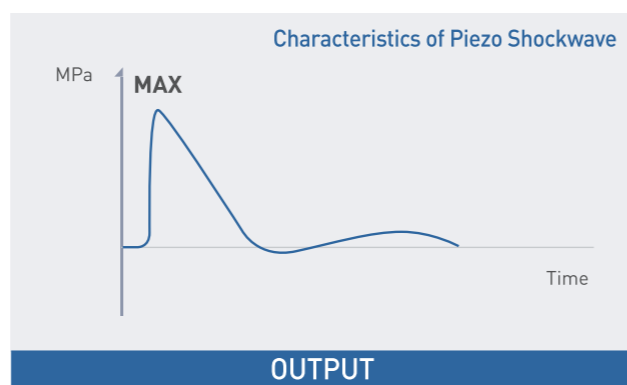
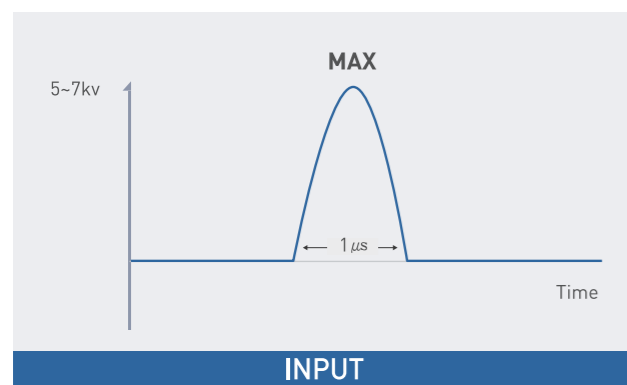
What is ESWT

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



Principle of Piezo

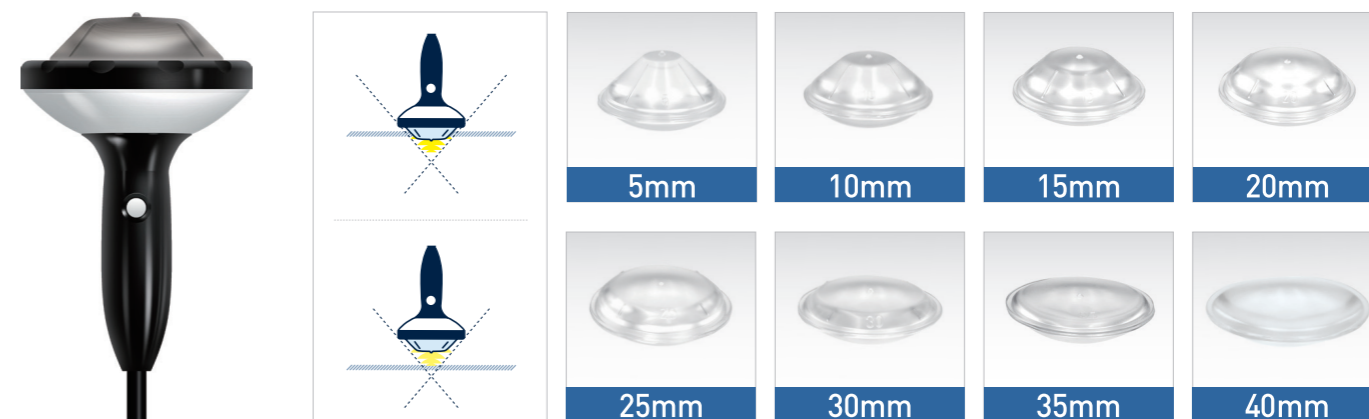
The principle of the Piezo-Shock Wave is that a focused shockwave is generated when a high-voltage (5KV-7KV) pulse is applied to a piezo element for a short period (1-2 μs). After the shockwave sharply rises, it drops exponentially and shows a short negative pressure.



Features of FSWT

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.

Piezo Handpiece & Elastomer Gel Pads



Generation Comparison for Piezo

Division	Single-type (1st generation)	Multy-array type (2nd generation) OUR TECHNOLOGY
Element configuration	Concave single element use	Cylindrical piezoelectric elements 200 units single arrays
Element model		
Penetration depth	30mm	40 ~ 44mm
Number of shocks used	70 thousand ~1 million shocks	5 ~ 10 million shocks

ZEUS WAVE Piezo-type Specifications

Rated Power	AC 200~240V	Penetration Depth of Piezo-type(Max.)	40mm±20%
Rated Frequency	50/60Hz	Focusing Size of Piezo-type(Max.)	1.78x1.78x15.81mm±20%
Power Consumption	1.1kVA	Dimension	500(W) x 720(D) x 980(H)mm
Energy Flux Density of Piezo-type(Max.)	0.702mJ/mm ² ±15%	Weight	About 41kg