MODUS COMBINED ESWT

SHOCKWAVE THERAPY • SHOCKWAVE THERAPY •
COMBINED SHOCKWAVE THERAPY

A New Era in Lipedema Treatment with MODUS
Dual-Technology Shockwave Therapy

İNCELER

Modus Combined ESWT
The Shock Wave Device features a touchscreen and combines radial and focused shock waves in one system.

MODUS COMBINED ESWT
RADIAL AND FOCUSED SHOCKWAVE THERAPY

MODUS COMBINED ESWT

Radial and Focused Shock Wave Therapy in One Device!

The **Modus Combined ESWT** device offers an effective and versatile treatment option in the field of dermatology. Our device combines both focused and radial shock wave technologies in a single system, providing comprehensive solutions for skin health and rejuvenation. With this non-invasive treatment method, shock waves applied to the skin's surface stimulate cellular activity in subcutaneous tissues, activating the body's natural healing mechanisms.

Focused shock waves penetrate deep tissues and are effective in treating serious dermatological conditions such as chronic wounds, diabetic foot ulcers, and venous ulcers.

Radial shock waves increase circulation in superficial skin tissues, supporting the regeneration process and offering ease of application across wider surface areas.

Modus Combined ESWT also stimulates collagen production and increases skin elasticity, making it an effective solution for aesthetic applications such as skin tightening.

This comfortable treatment, which does not require surgery or anesthesia, ensures high patient satisfaction in both clinical and cosmetic dermatology.

MODUS COMBINED ESWT
SHOCK WAVE THERAPY DEVICE

Modus Combined ESWT Shock Wave Device combines radial and focused shock waves in a single device, offering a versatile and effective treatment solution. This non-invasive method increases blood flow in the area of discomfort, activating the body's natural healing mechanisms and supporting tissue regeneration.

Dual Modality Therapy
Combining radial and focused shock waves, the device provides comprehensive treatment options targeting tissues at different depths.

High Power & Wide Adjustment Range
The radial shock wave mode offers frequencies up to 22 Hz and impulse pressure up to 5 bar, while the focused shock wave mode is adjustable from 1-4 Hz with 25 power levels, allowing customization according to patient needs.

Advanced Touchscreen Interface
The color touchscreen offers a user-friendly experience. Treatment parameters can be easily monitored and adjusted in real time during therapy sessions.

Patient Monitoring System
Built-in patient record and tracking menu helps manage treatment processes more efficiently.

Ready-to-Use Treatment Protocols
The system provides visual and written guidance for ease of use. Various applicator heads are available for different needs in radial therapies.

Automatic and Manual Control
The device stops automatically after the preset number of pulses is reached, but can also be manually controlled by the user if desired.

Modus Combined ESWT is an innovative device optimized to meet the needs of healthcare professionals, equipped with advanced technology to simplify modern treatment procedures.

MODUS COMBINED ESWT
RADIAL AND FOCUSED SHOCKWAVE THERAPY

Modus Combined ESWT
Radial Handpiece

Modus Combined ESWT
Focused Handpiece

DUAL MODE TECHNOLOGY

Modus Focused ESWT offers highly effective treatment with penetration up to 84.50 mm. The powerful energy reaching deep tissues helps you achieve fast and effective results.

MODUS COMBINED ESWT
RADIAL AND FOCUSED SHOCKWAVE THERAPY

MODUS COMBINED ESWT
FOCUSED HANDPIECE FEATURES

More efficient treatments with high-level energy transfer and ergonomic design.

Advantages for the User

> Provides full energy transmission to anatomical regions.
> Ergonomic design prevents hand fatigue, offering comfort during prolonged use.
> Lightweight and balanced design enables easy maneuverability.
> Durable structure ensures long lifespan and requires no maintenance.

F-50 Head

Penetration Depths

- 68,50 mm
- 28,50 mm
- 12,00 mm
- 84,50 mm

Higher Energy Output

Provides optimal results by delivering concentrated energy to the treatment area

Deep Penetration

Speeds up the healing process by delivering effective energy to deep tissues.

Fast and Effective Treatments

Shortens treatment time, saving both time and effort.

MODUS COMBINED ESWT
RADIAL HANDPIECE FEATURES

Enhance your treatment efficiency with the Modus Radial ESWT handpiece. While its powerful and ergonomic design ensures comfort during prolonged use, the advanced technology provides an effective treatment solution.

Advantages for the User

> One-button on/off functionality
> Suspension system to reduce vibrations caused by projectile movement
> Variety of applicator heads based on treatment area
> Easy maintenance and revision kit replacement
> Lightweight and ergonomic design that minimizes hand fatigue

MODUS COMBINED ESWT
RADIAL AND FOCUSED SHOCKWAVE THERAPY

Ergonomic, Powerful, and Effective Radial Therapy

High Energy Output

Effective treatment with impulse power up to 5 bar and frequency up to 22 Hz

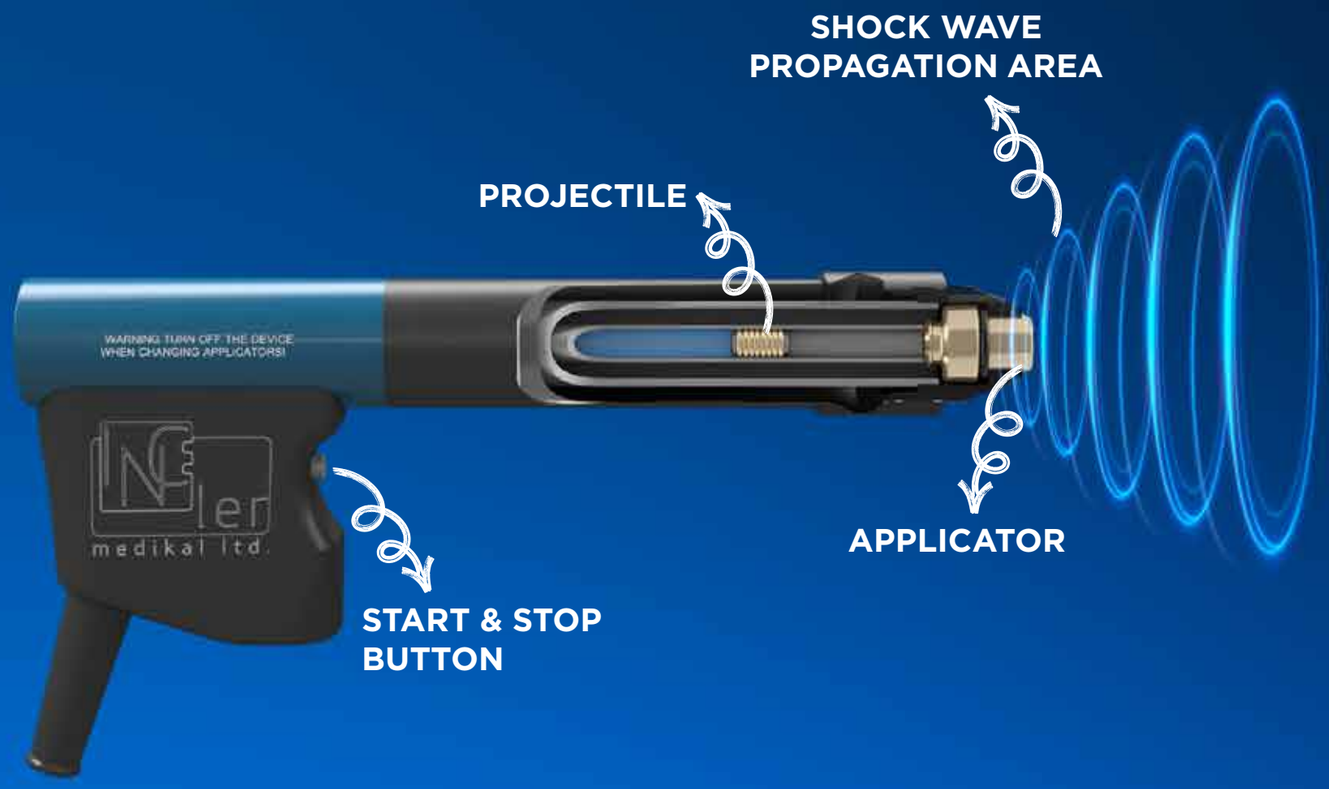
Penetration Depth up to 40 mm

Yüzeysel ve orta derinlikteki dokulara ulaşarak etkin ve hızlı tedavi sağlar.

Fast and Effective Treatments

Practical use with quick sessions even over wide areas

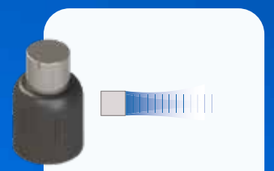
Modus Radial ESWT provides effective treatment for superficial and medium-depth tissues with penetration up to 40 mm. It delivers powerful energy over wide areas, accelerating healing in muscle and connective tissues and offering a comfortable and effective treatment experience.



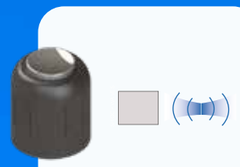
APPLICATOR: Ø6 mm Radial
USE: Acupuncture Shock Wave Therapy

APPLICATOR: Ø10 mm Radial
USE: Tendinopathies

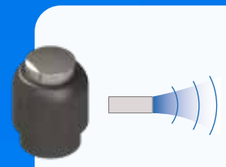
APPLICATOR: Ø15 mm Radial
USE: Tendinopathies



APPLICATOR: Ø15 mm Trigger
USE: Chronic Conditions, Deep-Seated Disorders, High Energy Requirements



APPLICATOR: Ø15 mm Focus
USE: Head and Neck, Fascial Muscles, Superficial Pain Areas



APPLICATOR: Ø20 mm Radial
USE: Muscular Connective Tissue, Myofascial Trigger Point Therapy, Trigger Diagnosis, Skin Elasticity

APPLICATOR: Ø35 mm Radial
USE: Muscular Connective Tissue, Myofascial Trigger Point Therapy, Trigger Diagnosis, Skin Elasticity

APPLICATOR: Ø35 mm Radial/Soft
USE: Muscular Connective Tissue, Myofascial Trigger Point Therapy, Trigger Diagnosis, Skin Elasticity

MODUS COMBINED ESWT
RADIAL AND FOCUSED SHOCKWAVE THERAPY

3,000,000 SHOCK PULSE CAPACITY RADIAL HANDPIECE DESIGN

3,000,000 SHOCK PULSE GUARANTEE

Applies effective rhythms to the selected anatomical area to accelerate the treatment process. With its powerful design that ensures easy and safe use, it provides long-lasting performance. With a **shock pulse capacity of 3,000,000,** the device offers long-term reliability and durability suitable for intensive use.

RADIAL APPLICATOR OPTIONS OFFERING WIDE RANGE OF USE

With a broad range of applicators suitable for various treatments, the system delivers pulses at frequencies up to 22 Hz. These pulses are transmitted into the body via the applicator, achieving **penetration depths of up to 30–40 mm** in the tissue it contacts.

Find Healing
With Shock Wave
Technology

EFFECTIVE DERMATOLOGICAL TREATMENT WITH RADIAL & FOCUSED SHOCK WAVE TECHNOLOGIES

In the **Modus Combined ESWT** system, the decision to apply focused or superficial treatment is made based on factors such as the targeted tissue, type of damage, patient condition, and pain threshold.

In areas with minor tissue damage, the radial system is preferred, while in areas with more severe tissue damage, the focused system is used. Designed with innovative technology, **Modus Combined ESWT** offers both principles in a single device.

The **Modus Combined ESWT** System stands out as an effective method for the treatment of chronic wounds, diabetic foot ulcers, lipedema, lymphedema, and other critical conditions.

MODUS COMBINED ESWT
RADIAL AND FOCUSED SHOCKWAVE THERAPY

WHICH ORTHOPEDIC CONDITIONS CAN MODUS COMBINED BE USED FOR?

LIPEDEMA

Lipedema is a chronic and progressive condition characterized by symmetrical fat accumulation in the lower extremities, mostly seen in women. It typically presents as noticeable swelling, tenderness to pressure, and pain in areas such as the hips, thighs, knees, and ankles. In lipedema, fat cells grow abnormally, and a fluid accumulation similar to edema may occur due to impaired lymphatic drainage. The condition is often associated with hormonal changes (such as puberty, pregnancy, or menopause) and genetic predisposition plays an important role.

Treatment approaches for lipedema primarily include manual lymphatic drainage, compression therapy, exercise, and dietary regulation. In recent years, **Extracorporeal Shock Wave Therapy (ESWT)** has also been considered a supportive treatment method.

ESWT, by delivering high-energy shock waves to the targeted area, may help improve microcirculation, support lymphatic drainage, and contribute to regenerative processes in tissues. As a result, it may reduce pain and pressure sensitivity, regulate circulation, and improve the structural integrity of fatty tissue.

LYMPHEDEMA

Lymphedema is a condition in which fluid accumulates in the body due to dysfunction of the lymphatic system or blockage in the lymphatic vessels. This accumulation can cause swelling and pain, usually in limbs such as the arms and legs. Lymphedema may result from surgical removal of lymph nodes, infections of the lymphatic system, or other conditions that affect lymphatic function.

ESWT (Extracorporeal Shock Wave Therapy), by delivering high-energy shock waves to the targeted area, enhances tissue regeneration and circulation. The potential goals of ESWT in lymphedema treatment are to stimulate lymphatic drainage, promote regeneration of damaged lymphatic vessels, and facilitate the more effective removal of accumulated fluid.

MODUS COMBINED ESWT
RADIAL AND FOCUSED SHOCKWAVE THERAPY

DIABETIC FOOT ULCER

Diabetic foot ulcers are wounds commonly seen in diabetic patients that are difficult to heal and, if left untreated, can lead to serious complications. Diabetes, due to high blood sugar levels, negatively affects nerves and blood vessels, causing loss of sensation and circulatory issues in the feet. This makes it difficult to notice minor traumas and leads to the development of hard-to-heal wounds.

Diabetic ulcers increase the risk of infection, and if left untreated, they can result in severe outcomes such as infection, gangrene, or even amputation.

In recent years, **Extracorporeal Shock Wave Therapy (ESWT)** has emerged as a promising method in the treatment of diabetic foot ulcers. In this approach, high-energy shock waves are directed to a specific focal point. The goal is to stimulate regeneration in damaged tissues, improve blood circulation, support cellular renewal, and thus accelerate the healing process.

CHRONIC SKIN ULCER

Chronic skin ulcers are open wounds that heal slowly and tend to recur. These ulcers typically develop in areas exposed to pressure, such as the legs or feet. Diabetic foot ulcers, venous or arterial insufficiency, pressure ulcers, and traumatic injuries can all be underlying causes. Chronic skin ulcers can negatively impact patients' quality of life and, due to infection risks, lead to serious complications.

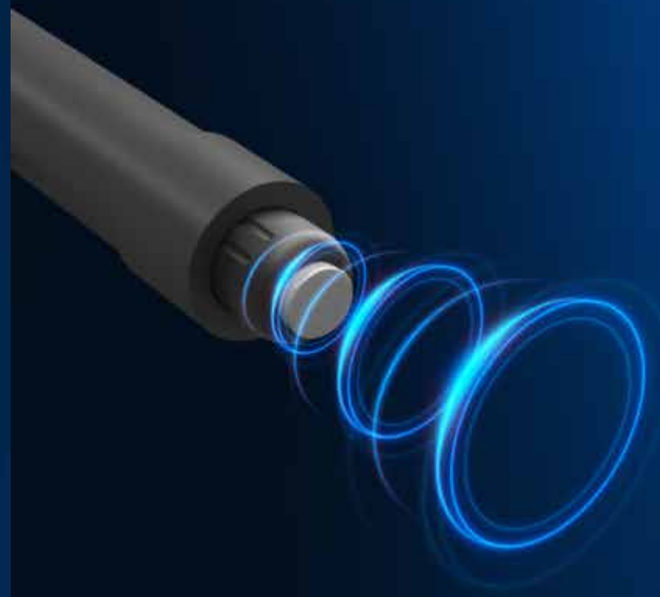
Extracorporeal Shock Wave Therapy (ESWT) is considered an alternative method for treating chronic skin ulcers. ESWT involves the application of high-energy shock waves focused on the targeted area to stimulate regeneration in the tissue. This treatment may accelerate the healing process of the wounds, enhance tissue regeneration, and promote the formation of healthy skin tissue.

RADIAL SOFT APPLICATOR FOR PAINFUL AND SENSITIVE AREAS

The soft applicator, designed for the Radial ESWT device, ensures that shock waves applied to painful areas are delivered more efficiently and gently.

Comfortable and Targeted Treatment with Soft Applicator Technology

MODUS COMBINED ESWT
RADIAL AND FOCUSED SHOCKWAVE THERAPY



WHY RADIAL SHOCK WAVE?

This is a powerful application that delivers high pressure and high energy in a very short time, reducing session and treatment duration. With its lightweight and ergonomic handpiece design, it makes the treatment practical and easy. The applicator delivers pulses to the body at frequencies up to 22 Hz. The soft applicator offers ease of use especially for sensitive area applications.

WHY FOCUSED SHOCK WAVE?

This is a practical and effective application in which shock waves are delivered from outside the body to the targeted area via a fluid-filled silicone applicator. The silicone applicator and handpiece deliver full energy transmission to the selected anatomical area, allowing the shock wave to reach deep tissues quickly. High energy and penetration depth make the treatment more effective.

SHOCK WAVE THERAPY IN THE TREATMENT OF CHRONIC WOUNDS

Chronic skin lesions generally emerge as a result of underlying conditions such as diabetes. These types of lesions can seriously affect patients' quality of life and overall health. However, in recent years, Extracorporeal Shock Wave Therapy (ESWT) has emerged as a significant method that enables promising results in the treatment of such lesions.

ESWT is an effective treatment approach that uses externally applied shock waves to significantly improve and accelerate healing processes. Research shows that ESWT supports wound healing and provides better functionality in restored tissue. Particularly in reviews of randomized controlled trials, when ESWT is used in addition to traditional wound care, it has been shown to reduce wound area by approximately 30% and almost double the healing rate. This means that the patient's treatment duration can be shorter and outcomes more effective.

The effects of ESWT are not limited to increasing blood circulation in the wound area. At the same time, the mechanical effect triggered during the session promotes the formation of new capillaries and helps nourish the tissue for better healing. This process is supported by the release of key metabolic proteins such as eNOS and VEGF. Additionally, ESWT is observed to have not only physical healing effects but also antibacterial and anti-inflammatory effects. This means that the therapy can reduce the risk of infection in the lesion area and help control inflammation.

In conclusion, the multifaceted benefits of ESWT in the treatment of chronic skin lesions make it an important and promising method in the medical field. This treatment approach can improve patients' quality of life and reduce many of the problems caused by chronic skin lesions.

MODUS COMBINED ESWT - DERMO

BEFORE **AFTER**

MODUS COMBINED ESWT - DERMO

BEFORE **AFTER**

MODUS COMBINED ESWT
RADIAL AND FOCUSED SHOCKWAVE THERAPY

SHOCK WAVE THERAPY IN THE TREATMENT OF LIPEDEMA

Lipedema is a condition characterized by abnormal fat accumulation in the body. It typically affects the hips, thighs, knees, and ankles, and is most commonly seen in women. Lipedema is a type of fat accumulation that occurs independently of the lymphatic system and is often more prevalent in individuals with a family history. It may also develop under the influence of hormonal factors. Lipedema leads to disproportionate fat accumulation in body contours and usually does not improve with diet or exercise.

Lipedema primarily affects women and presents as symmetrical fat buildup in specific regions. The role of shock waves in the treatment of this condition has been investigated. Clinical studies indicate that shock waves may be effective in treating lipedema. Applied shock waves may help break down fat cells, increase circulation, and support lymphatic drainage. As a result, volume reduction and improvement in skin thickness may be achieved in lipedema-affected areas.

Patients report that the treated areas feel softer, sensory function improves, and there is a noticeable reduction in skin thickness. For these reasons, shock wave therapy is considered a promising option for patients with lipedema. However, as with any treatment method, it is important to make an individual assessment based on the patient's condition and treatment plan.

MODUS COMBINED ESWT - DERMO

BEFORE **AFTER**

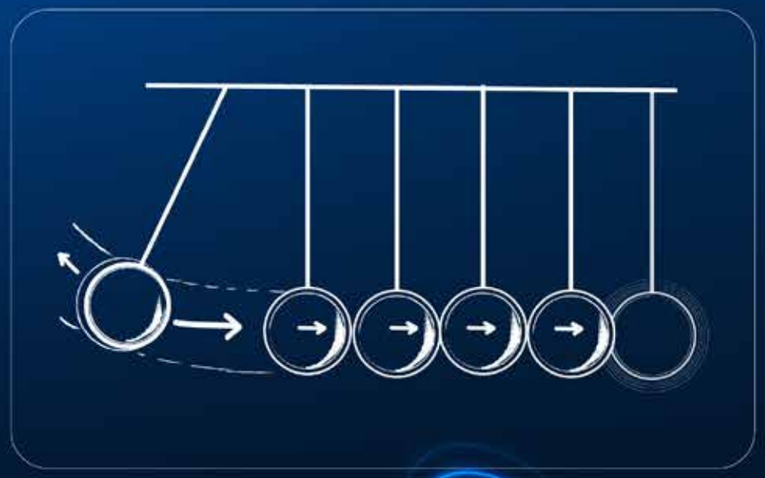
MODUS COMBINED ESWT - DERMO

BEFORE **AFTER**

> RADIAL SHOCK WAVE TECHNOLOGY BASED ON NEWTON'S LAW

Modus Radial ESWT device bases its working principle on the Law of Action-Reaction put forth by physicist Sir Isaac Newton in 1687. This law forms the foundation of the mechanism behind the formation of radial pressure waves.

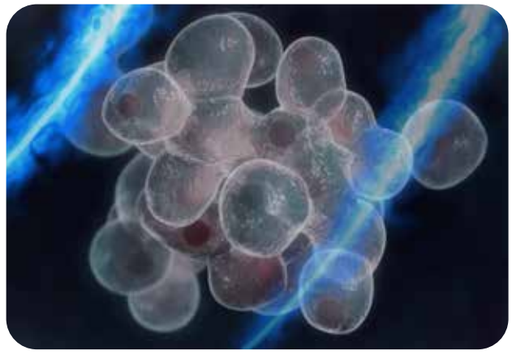
Inside the device, a projectile accelerated by compressed air strikes a metal transmitter head. The mechanical energy resulting from this impact transforms into acoustic pressure waves when applied to the skin. These waves spread to the target tissues, creating a biological stimulus and activating natural healing processes. This technology, based on a physical principle, offers a reliable and effective alternative for the treatment of musculoskeletal disorders due to its non-invasive nature and proven effectiveness



> RADIAL SHOCK WAVES THAT PROVIDE STRONG STIMULATION EFFECT

Radial shock waves create mechanical stimulation in the target tissue, initiating a pain-relieving and regenerative process in the body. These waves spread across a wide surface area of the tissue, stimulate cells, and activate the body's natural healing mechanisms.

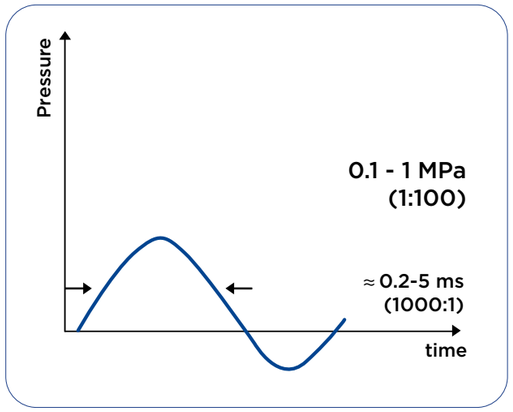
High-frequency and rhythmic pulses can be effectively used, especially in musculoskeletal system problems.



> PRESSURE CHARACTERISTICS OF RADIAL SHOCK WAVES

Pressure profile: Radial shock waves have a low-pressure (0.1–1 MPa) and long-duration (0.2–5 ms) effect profile.

Effect pattern: The waves rise gently, spread over a broad area, and provide therapeutic effects in superficial tissues. This structure offers both effective and comfortable application in muscle and tendon treatments.



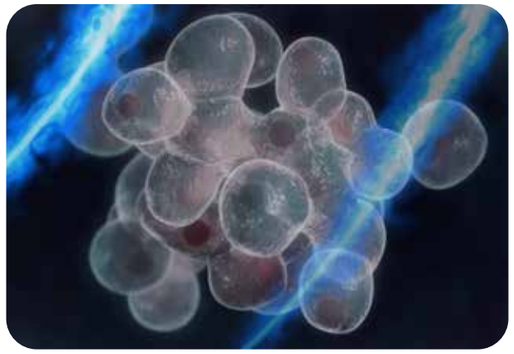
> MODUS FOCUSED ESWT POWERFUL AND DEEP-ACTING SHOCK WAVE TECHNOLOGY

Modus Focused ESWT is an innovative shock wave therapy system operating on the electrohydraulic principle. The electrical discharge generated with high voltage produces a powerful acoustic shock wave in a fluid medium. These waves, directed through specially designed reflectors, deliver maximum energy transfer to a narrow focal point within the target tissue.

This technology offers a broader focal area compared to competing piezoelectric and electromagnetic ESWT systems, enabling faster and more effective treatment.

> FOCUSED SHOCK WAVES THAT TRIGGER CELLULAR REGENERATION

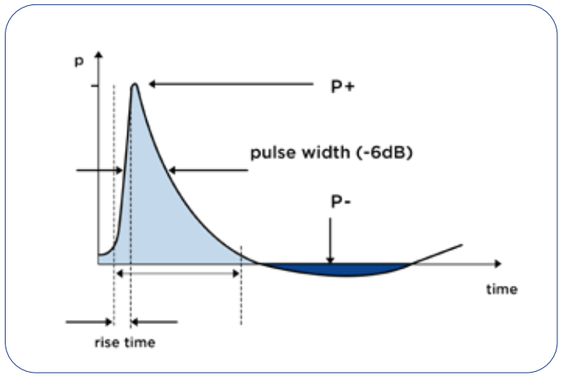
Focused electrohydraulic shock waves deliver intense mechanical force and high energy transfer to the target tissue. This biomechanical stimulation triggers cellular regeneration, accelerates blood circulation, and activates the regenerative process. Thanks to deep and precise focusing technology, it provides rapid healing and long-lasting therapeutic effects.



> PRESSURE CHARACTERISTICS OF FOCUSED SHOCK WAVES

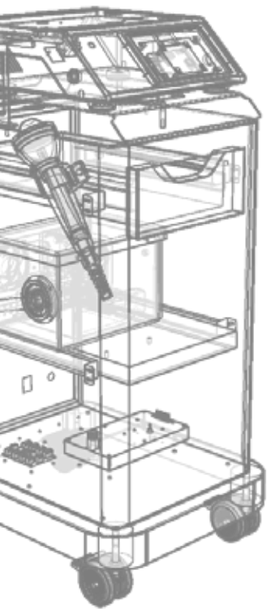
Pressure profile of the shock wave: The graph shows the change in pressure of the shock wave over time. P+ (positive pressure) rapidly rises to a peak and then gradually decreases, transitioning into negative pressure (P-).

Pulse width and rise time: The area labeled as “Pulse width (-6dB)” indicates the effective duration of the pulse, while the “Rise time” region represents the time it takes for the pressure to reach its peak level. A short rise time indicates that the shock wave creates a fast and powerful effect.



TECHNICAL FEATURES

Manufacturer	INCELER MEDIKAL SAGLIK HIZ. SAN. TIC. LTD. ŞTI.
Model	Modus Combined ESWT
Quality and Classification	According to EN 60601-1 Class I Type B
	According to EN 93/42 MDD Class IIb
	IEC 60601-1
	IEC 60601-1-2Single, Continuous, Burst, Auto
Radial User Modes	Continuous, Burst, Auto
Focused User Modes	1-25
Focused Power Levels	Electrohydraulic / Focused
	Electropneumatic / Radial
	Touchscreen
Display	Built-in Compressor
Compressor	1 – 5 Bar
Radial Output Pressure	1 - 22 Hz
Radial Frequency Range	1 - 4 Hz (Optional 6 Hz)
Focused Frequency Range	200-240 ±% 10 VAC, 50/60 Hz
Voltage & Frequency	Radial: Main screen button and handpiece button
Start/Stop Settings	Focused: Main screen button
	3 Programmable Memory Keys (S1, S2, S3)
Memory Buttons	20 - 30
Treatment Protocols	Suspension system, 3 million shock pulses
Radial Handpiece	Ø 6 mm Radial
Applicators	Ø 10 mm Radial
	Ø 15 mm Radial
	Ø 15 mm Trigger
	Ø 15mm Focus
	Ø 20 mm Radial
	Ø 35 mm Radial
	Ø 36 mm Radial (Optional)
	Ø 35 mm Radial Soft
	116 mm x 387 mm x 316 mm (Main Unit)
Dimensions	450 mm x 350 mm x 930 mm (Including Trolley)
	60 kg
Weight	10°C ≤ Temperature ≤ 40°C
Operating Environmentı	30% Rh ≤ Humidity ≤ 80% Rh
	-10°C ≤ Temperature ≤ 50°C
Storage Environment	20% Rh ≤ Humidity ≤ 90% Rh



LIPOEDEMA TREATMENT IN 4 STEPS

1. EXAMINATION

Before treatment, carefully examine the area for swelling, pain, or wounds and identify the regions suitable for therapy.

2. MARK THE AREA

Mark the area where the shock waves will be targeted to ensure proper focus during the treatment.

3. APPLY GEL

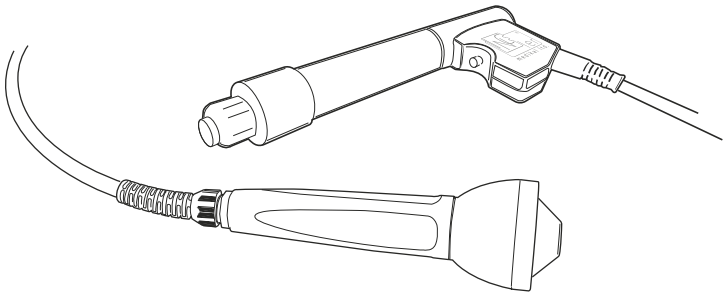
Apply medical gel to the treatment area to ensure effective transmission of shock waves to the skin and subcutaneous tissues.

4. APPLY SHOCK WAVES

Firmly place the device's applicator on the treatment area to effectively deliver the shock waves to the tissue. In lipedema treatment, focus on increasing circulation in fatty tissue and stimulating tissue regeneration around the wound area.

Dermatology

MODUS COMBINED



Technology For Health

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MODUS COMBİNED ESWT

İnceler Medikal ltd.
İvedik OSB Mah. 1472. Cad.
No: 120 Yenimahalle
Ankara/Türkiye

tel: +90 312 255 3346
sales@incelermedikal.com

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