

DOLORCLAST® FOCUSED SHOCK WAVES

HIGH ENERGY LEVELS AND DEEPER PENETRATION
TO COVER A WIDER RANGE OF PATHOLOGIES



EMS+

**EXPERIENCE FOCUSED
SHOCK WAVES THERAPY
LIKE NEVER BEFORE**



FIRST-LINE THERAPY **FOR DEEP STRUCTURAL** **MUSCULOSKELETAL** **AND BONE PATHOLOGIES**



- ▶ **HIGH-ENERGY FOR BETTER TREATMENT OUTCOMES**
- ▶ **TARGETS THE ROOT CAUSE OF PAIN AND NEUROGENIC INFLAMMATION ¹⁻²**
- ▶ **PROMOTES NATURAL HEALING ³**
- ▶ **NON-INVASIVE ALTERNATIVE TO SURGERY AND INJECTION**
- ▶ **BEST-SUITED FOR DEEP MUSCULOSKELETAL AND BONE PATHOLOGIES, CALCIFICATIONS, DEEP TRIGGER POINTS OR ERECTILE DYSFUNCTION**
- ▶ **FAST EFFECTS FROM 1ST SESSION AND LASTING BENEFITS ⁴**
- ▶ **ALTERNATIVE TO RADIAL SHOCK WAVES THERAPY FOR THE TREATMENT OF PAINFUL TENDINOPATHIES ON PATIENT WITH LOW-THRESHOLD OF PAIN**

IN-DEPTH HIGH-ENERGY FOCUS
FOR PAIN RELIEF AND REHABILITATION

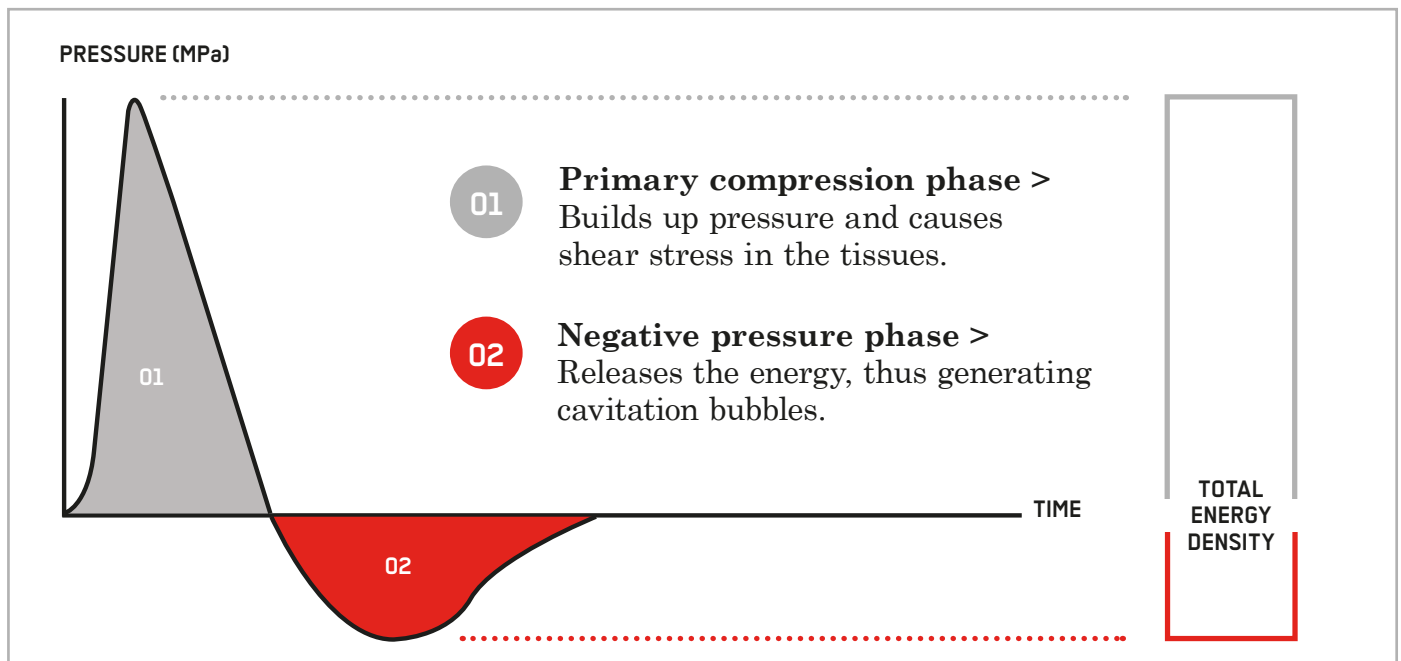
MAXIMIZE TREATMENT

NO COMPROMISE ON ENERGY LEVELS FOR BEST CLINICAL OUTCOMES

- ▶ CAVITATION TRIGGERS BIOLOGICAL RESPONSES AND IS KEY FOR CLINICAL SUCCESS ⁵⁻⁶
- ▶ HIGH ENERGY OUTPUT CREATES MORE CAVITATION ⁵
- ▶ HIGH ENERGY PER SHOCK IS ESSENTIAL ⁷
- ▶ FOCUSED SHOCK WAVES ALLOW FOR THE DELIVERY OF HIGHER ENERGY DENSITY TO DEEPER TARGET TISSUES THAN RADIAL SHOCK WAVES ³

WHAT
SCIENCE
SAYS

EXTRACORPOREAL SHOCK WAVES ENERGY SIGNATURE



1. HAUSDORF ET AL., BRAIN RES. 2008A; 1207:96-101
2. MAIER ET AL., CLIN ORTHOP RELAT RES. 2033; (406):237-45
3. WUERFEL ET AL., BIOMEDICINES. 2022; 10(5): 1084
4. PEDro DATABASE
5. CSASZAR ET AL., PLOS ONE. 2015; 10:E0140541
6. HOCHSTRASSER ET AL., SCI REP. 2016; 6:30637
7. KENMOKU ET AL., J.ORTHOP SCI. 2021; 26(4): 698-703

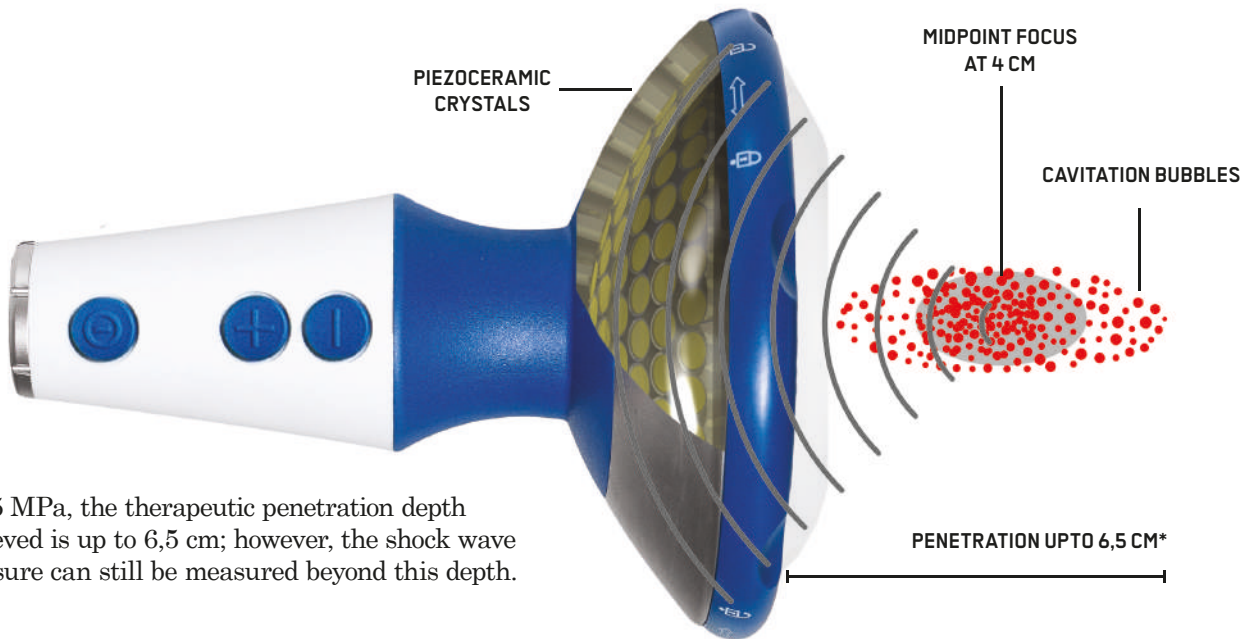
VIDEO OF
CAVITATION



OUTCOMES

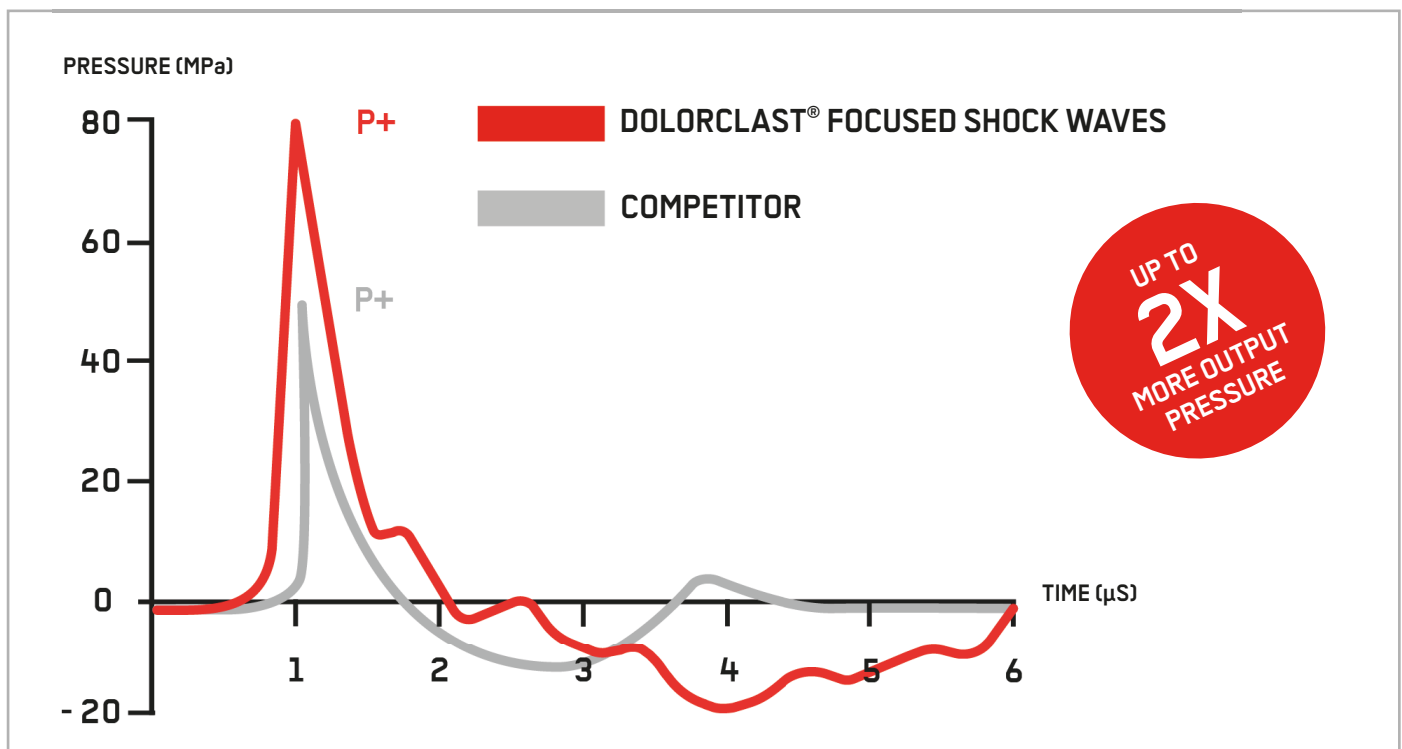


TRUE HIGH ENERGY SHOCK WAVES SHAPED BY HIGH PRECISION PIEZOELECTRIC TECHNOLOGY



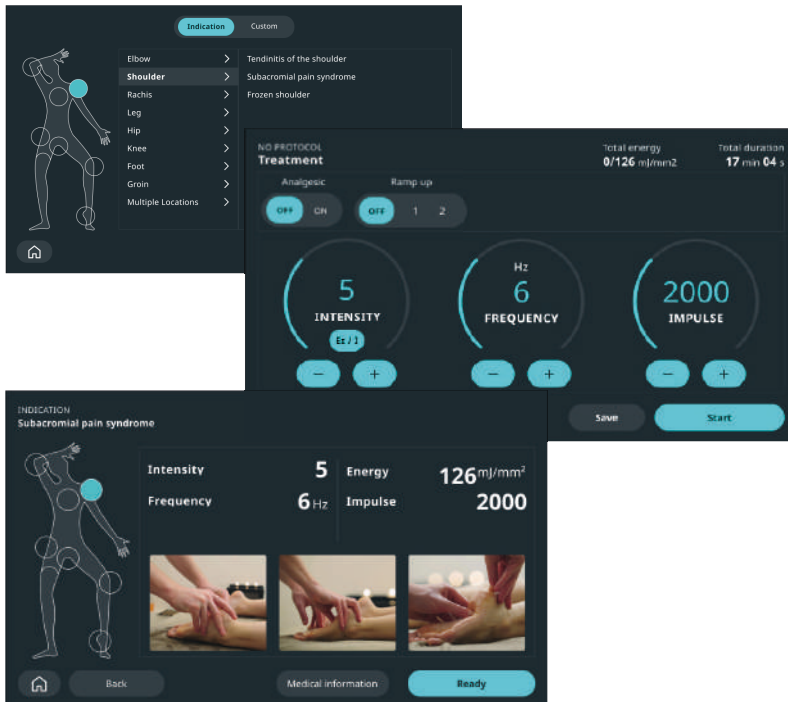
*At 5 MPa, the therapeutic penetration depth achieved is up to 6,5 cm; however, the shock wave pressure can still be measured beyond this depth.

OUTSTANDING PERFORMANCE OF DOLORCLAST® FOCUSED SHOCK WAVES



Acoustic characterization of the DolorClast® Focused Shock Waves. Internal measurements.

DESIGNED TO ENHANCE



SAVE TIME TO FOCUS ON THE ESSENTIALS

- ▶ Intuitive touch-screen interface for seamless navigation.
- ▶ Integrated step-by-step treatment tutorial.
- ▶ Preset protocols for easy guidance.
- ▶ Real-time monitoring of key parameters.
- ▶ Fully customizable protocols.
- ▶ 2 special modes (Analgesic and Ramp-up) to increase efficiency, tolerability and compliance.

IMPROVE PATIENT EXPERIENCE AND CLINICAL OUTCOMES

- ▶ Key function directly activated on the handpiece for streamlined operation (Intensity and on/off buttons).
- ▶ Piezoelectric generation of shock waves avoids mechanical micro displacement of the handpiece's applicator, thus providing comfortable treatment even for highly sensitive patients.
- ▶ 3 gel pads to adjust the depth of the focus point based on the pathology.

EASE YOUR PRACTICE WORKFLOW

- ▶ Treat anywhere anytime with transportable plug-and-play device.
- ▶ Maintenance-free.
- ▶ Long handpiece lifespan of over 5 million impulses.



PATIENT CARE



**IN-DEPTH
CARE**

COVER A WIDE RANGE OF ACUTE AND CHRONIC INDICATIONS

- ▶ Pain syndromes (myofascial pain; greater trochanteric pain, trigger points; lumbar and cervical pain; pelvic pain).
- ▶ Tendinopathies and fasciopathies.
- ▶ Chronic soft tissue wounds.
- ▶ Knee osteoarthritis.
- ▶ Bone lesions (nonunion, delayed union and stress fractures; tibial stress syndromes; shoulder adhesive capsulitis).
- ▶ Spasticity.
- ▶ Erectile dysfunction.

**REQUEST
A DEMO**



REFERENCES

DOLORCLAST® FOCUSED SHOCK WAVES		FT-249		
<ul style="list-style-type: none"> ▶ 1x Console ▶ 1x DolorClast Focused handpiece ▶ 1x Kit of 3 gel pads ▶ 1x Handpiece holder kit 		FT-249W	<ul style="list-style-type: none"> ▶ 2x Gel bottles	
		FR-359/A		DV-033
		FR-360		FB-1012
		FR-370		CD-XXX
OPTIONAL ACCESSORIES				
▶ Cart		DW-055		

TECHNICAL SPECIFICATIONS

MANUFACTURER	EMS ELECTRO MEDICAL SYSTEMS SA, CH-1260 Nyon, Switzerland
MODEL	DOLORCLAST® Focused Shock Waves
REGULATION (EU) 2017/745 CLASSIFICATION	Console, Handpiece: Class IIa Contact gel, Gel pads, Cart: Class I
CLASSIFICATION EN 60601-1	Console, Handpiece, Gels pads: Class I Applied part type B Console: IP 21 / Handpiece, Gel pads: IP20 Mode: continuous operation
POWER SUPPLY	100-127/220-240 VAC, 50-60 Hz, 150 VA
RANGES	Intensity: 0,1-20 Energy: 0,008-0,403 mJ/mm ² Number of impulses: 0-4000 Frequency: 1-8 Hz Pressure: 6,4 to 80 MPa
FUSES	F4AL 250 V - Interrupting rating: 63 A
WEIGHT (APPROX.)	Console: 15 kg / Handpiece: 1,4 kg / Gel pads kit: 0,8 kg / Cart: 18 kg
DIMENSIONS	Console: 180 x 340 x 450 mm / Handpiece: 156 x 116 x 116 mm Cart: 913 x 460 x 541 mm
OPERATING CONDITIONS	+10 °C to +35 °C / Relative humidity: 35% to 65% Max altitude: 3000 m / Atmospheric pressure: 700 hPa to 1060 hPa

Contact your EMS-authorized distributor:

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