

# 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 <sup>1-2</sup>
- ▶ PROMOTES NATURAL HEALING <sup>3</sup>
- ▶ 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 1<sup>ST</sup> SESSION AND LASTING BENEFITS <sup>4</sup>
- ▶ 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

# OUTCOMES

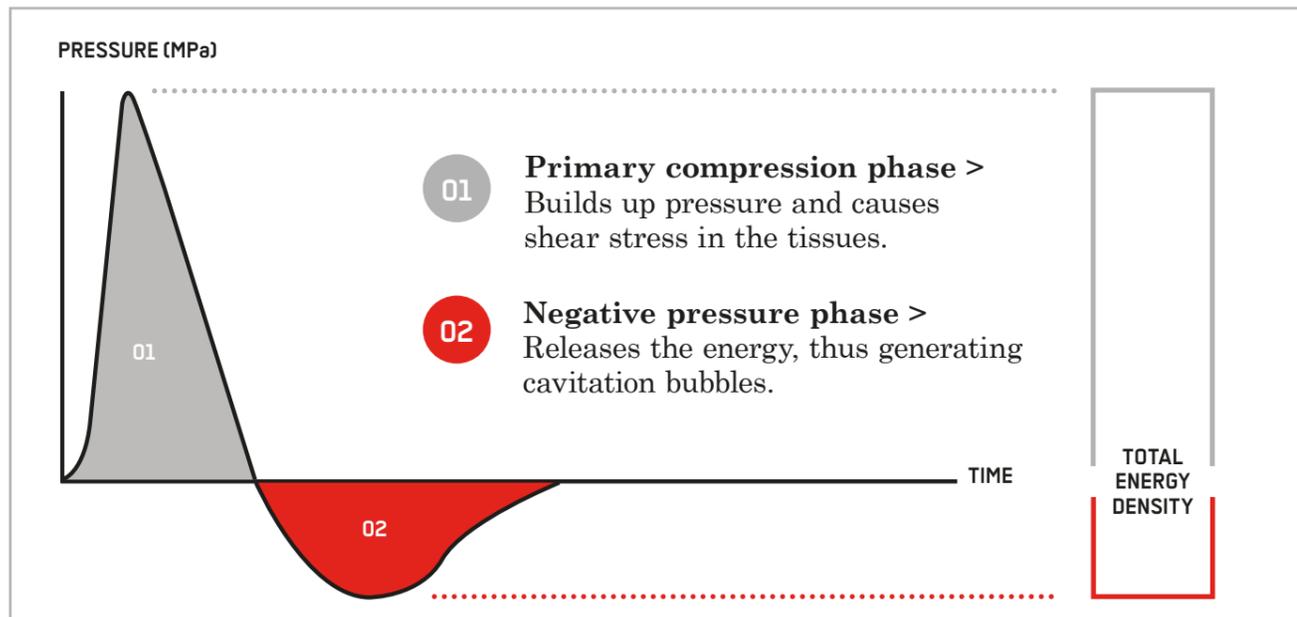


## NO COMPROMISE ON ENERGY LEVELS FOR BEST CLINICAL OUTCOMES

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



## EXTRACORPOREAL SHOCK WAVES ENERGY SIGNATURE

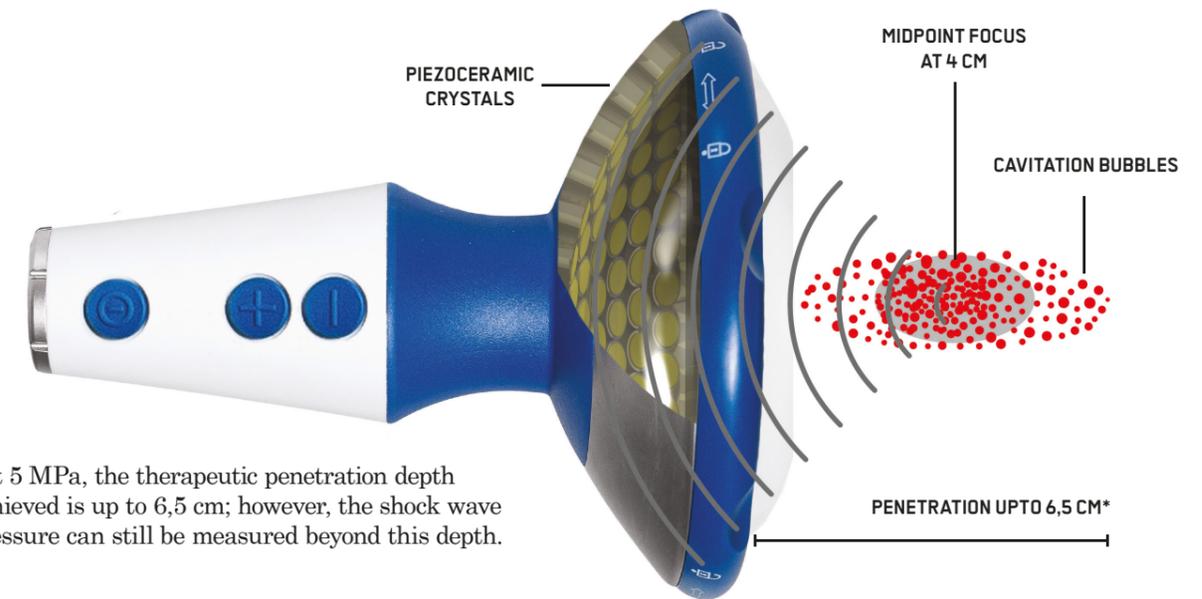


1. HAUSDORF ET AL., BRAIN RES. 2008A; 1207:96-101
2. MAIER ET AL., CLIN ORTHOP RELAT RES. 2033; (406):237-45
3. WUERFEL ET AL., BIOMEDICINES. 2022; 10(5): 1084
4. PEDro DATABASE
5. CSASZAR ET AL., PLOS ONE. 2015; 10:E0140541
6. HOCHSTRASSER ET AL., SCI REP. 2016; 6:30637
7. KENMOKU ET AL., J.ORTHOP SCI.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

VIDEO OF CAVITATION

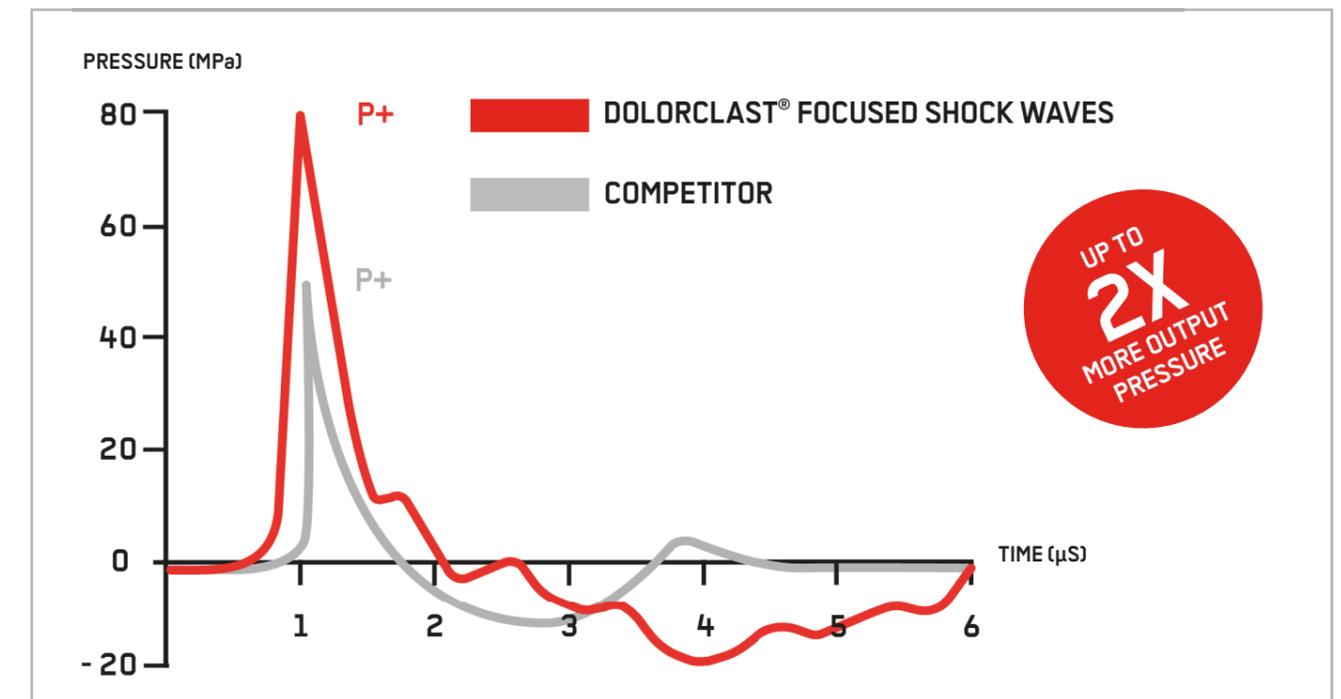


## TRUE HIGH ENERGY SHOCK WAVES SHAPED BY HIGH PRECISION PIEZOELECTRIC TECHNOLOGY



\*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.

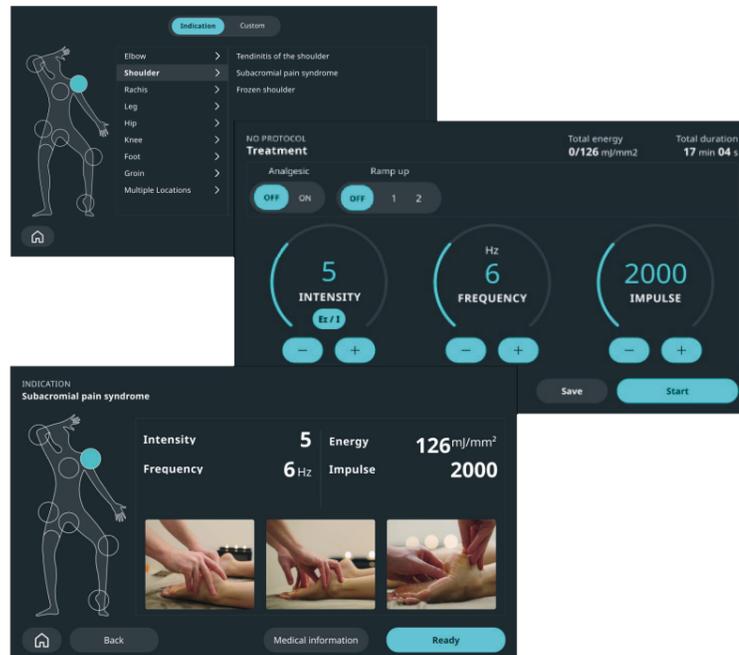
## OUTSTANDING PERFORMANCE OF DOLORCLAST® FOCUSED SHOCK WAVES



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

# DESIGNED TO ENHANCE

# PATIENT CARE



## 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 (Analg. 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.



## 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

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

# TECHNICAL SPECIFICATIONS

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

# WWW.EMS-DOLORCLAST.COM

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