SWISS DOLORCLAST®





NEW ENERGY

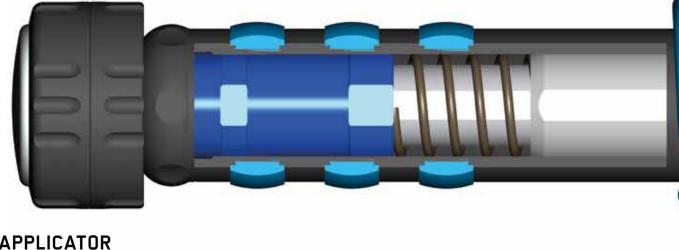
RADIAL SHOCK WAVE THERAPY → NEW ENERGY FOR MORE SUCCESS



THE PATENTED TECHNOLOGY OF THE SWISS DOLORCLAST® EVO BLUE HANDPIECE DRAMATICALLY BROADENS THE SCOPE OF APPLICATION AND LEVEL OF PERFORMANCE OF OUR ORIGINAL SWISS DOLORCLAST® METHOD

MORE PERFORMANCE

> Latest masterpiece from the inventor of radial shock wave therapy (RSWT®) – the Original Swiss DolorClast® Method

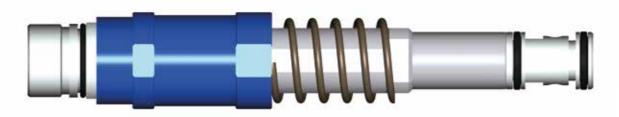


NEW APPLICATOR TECHNOLOGY

> New applicator design based on Finite Element Analysis* – for ideal shock wave transmission

NEW PISTON TECHNOLOGY

- > High-precision smart-lock piston with patented valve system – for unprecedented energy flux densities at all frequencies
- > Easy handpiece revision by quick replacement of smart-lock piston – much faster, more precise and safer than (self-) assembly of single spare parts





* Finite Element Analysis has become state-of-the-art for the modeling of physical systems in a wide variety of engineering disciplines

SWISS DOLORCLAST® EVO BLUE PERFORMANCE

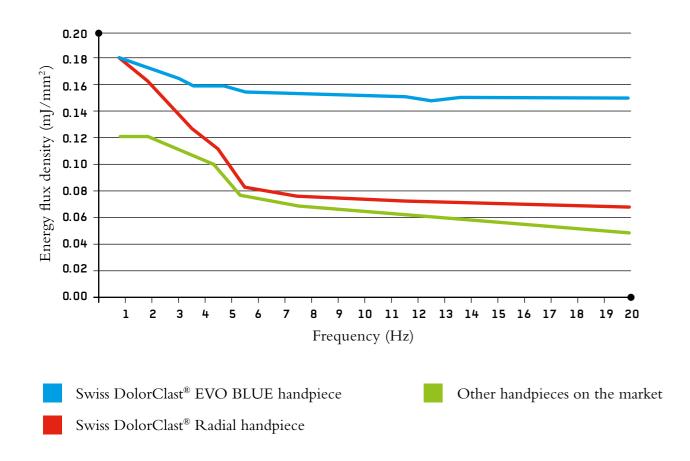
CONSTANT ENERGY

→ CONSTANT ENERGY FLUX DENSITY AT ALL FREQUENCIES

- > The new Swiss DolorClast® EVO BLUE handpiece with constant energy output = blue curve
- > The Swiss DolorClast® Radial handpiece = red curve
- > Other handpieces on the market with lower output energy at all frequencies = green curve

COMPARISON OF THE SWISS DOLORCLAST® EVO BLUE HANDPIECE, SWISS DOLORCLAST® RADIAL HANDPIECE AND OTHER HANDPIECES ON THE MARKET - 15 mm APPLICATOR, 4 bar

(Based on internal EMS studies)









6 x LARGER TREATMENT AREA





15 mm APPLICATOR

36 mm APPLICATOR

SAME ENERGY FLUX DENSITY







SWISS DOLORCLAST® EVO BLUE

CAVITATION

HIGH-SPEED PHOTOGRAPHY →

HIGH-SPEED PHOTOGRAPHY WITH SEVERAL MILLION FRAMES PER SECOND

→ CAVITATION BUBBLES GENERATED BY RADIAL SHOCK WAVES BECOME VISIBLE

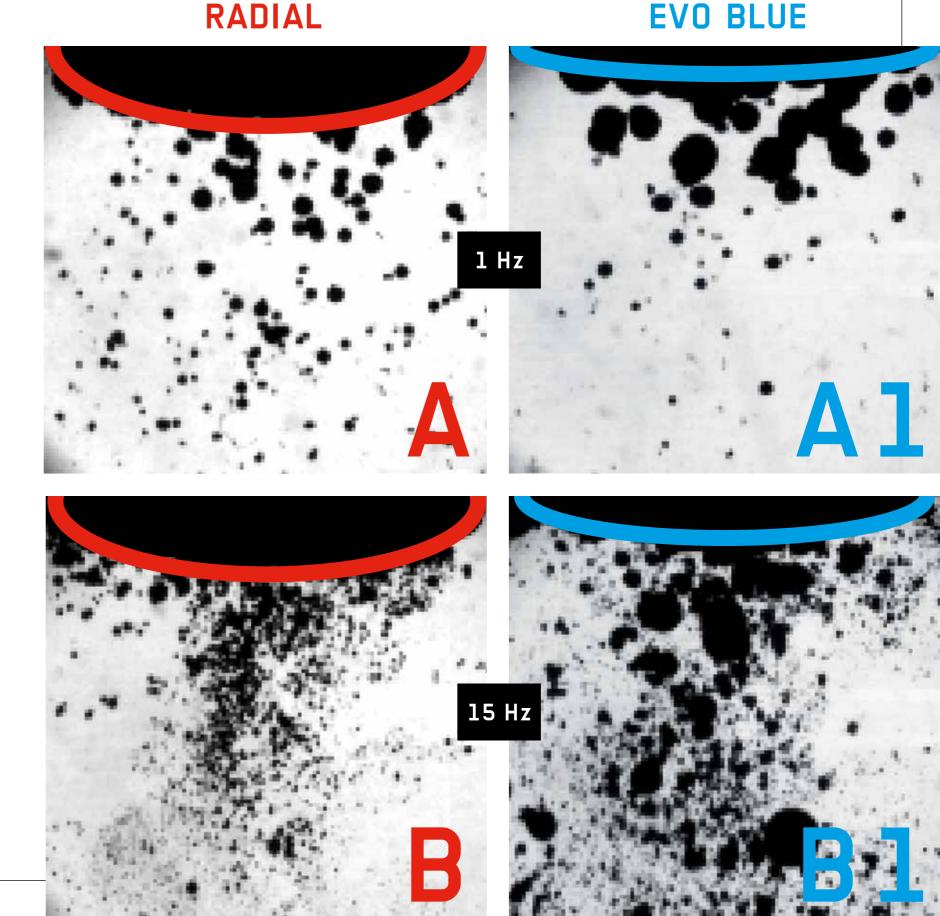
- > Cavitation bubbles are consequent to the negative phase of the propagation of radial shock waves
- > Due to the constant energy flux density at all frequencies the new Swiss DolorClast® EVO BLUE handpiece generates at 15 Hz much more cavitation than the Swiss DolorClast® Radial handpiece – this allows users to treat patients much faster, with the same treatment success

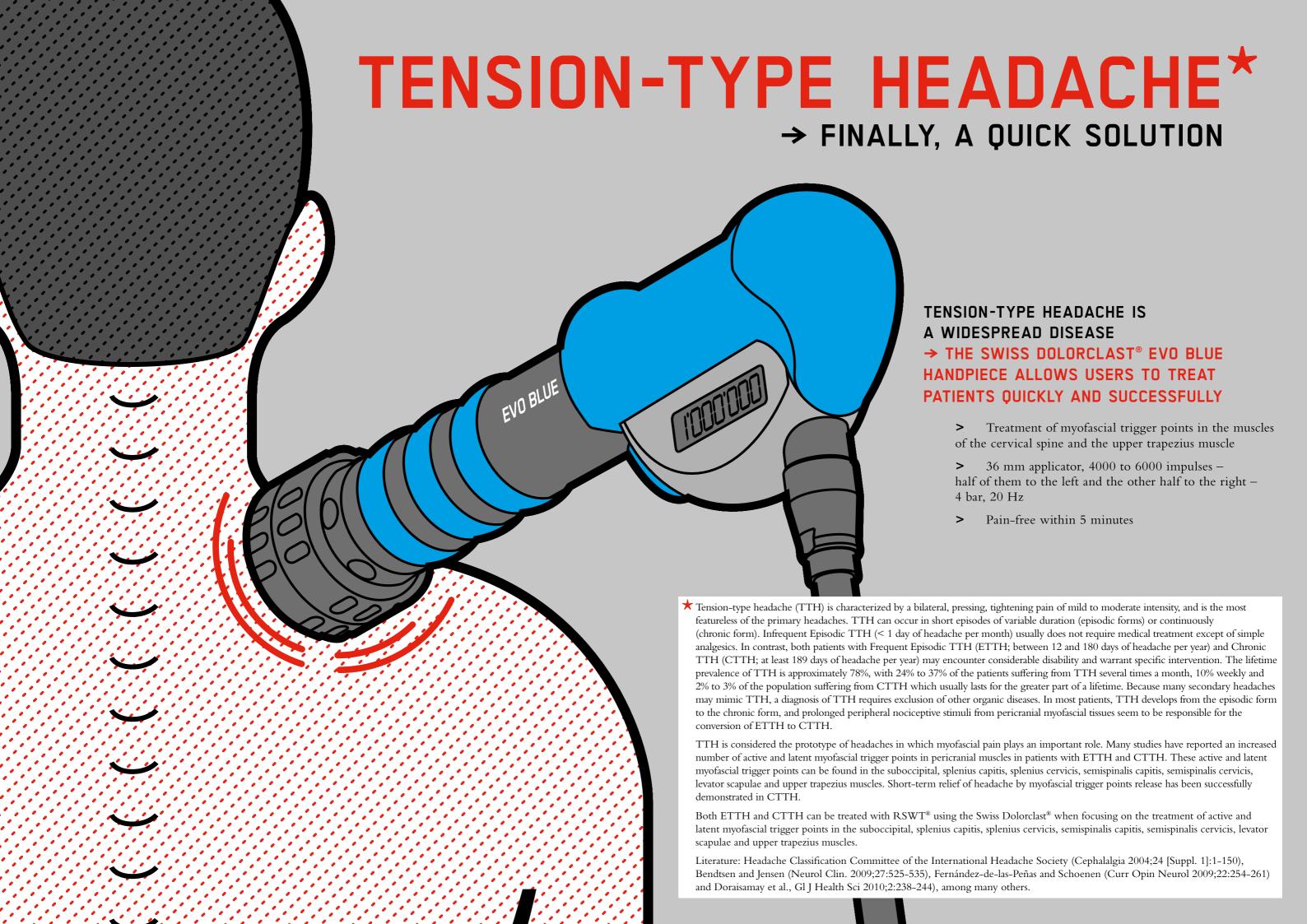
FASTER THAN BEFORE → SAME TREATMENT SUCCESS

High-speed photography (in degassed water) of cavitation bubbles consequent to the negative phase of the propagation of radial shock waves generated with the previous Swiss DolorClast® Radial handpiece (A, B) and the new Swiss DolorClast® EVO BLUE handpiece (A1, B1), operated with 4 bar pressure at 1 Hz (A, A1) and 15 Hz (B, B1).

Note that at 1 Hz the cavitation fields of both handpieces are very similar. In contrast, at 15 Hz the new Swiss DolorClast® EVO BLUE handpiece generates a much stronger cavitation field than the Swiss DolorClast® Radial handpiece. The fact that at 15 Hz the cavitation field of the new Swiss DolorClast® EVO BLUE handpiece is even stronger than at 1 Hz (compare B1 with A1) is most probably due to persisting cavitation bubbles that were generated by earlier radial shock waves. The red lines in A and B as well as the blue lines in A1 and B1 depict the surface of the 15 mm applicators of the handpieces.

Cavitation is considered a central mechanism of action of shock waves on the musculoskeletal system (Schelling et al., Biophys J. 1994;66:133-140; Hausdorf et al., Brain Res. 2008;1207: 96-101; Schmitz and DePace, Urol Res. 2009;37:231-234).





SWISS DOLORCLAST® EVO BLUE

INDICATIONS

NEW APPLICATORS

→ NEW APPLICATIONS

OPTIMIZED RADIAL SHOCK WAVE THERAPY
WITH THE SWISS DOLORCLAST® EVO BLUE HANDPIECE

		INDICATIONS →	15 mm	15 mm/TRIGGER	36 mm
MUSCULOSKELETAL INDICATIONS	1	CALCIFYING TENDINITIS OF THE SHOULDER	1		
	2	SUBACROMIAL PAIN SYNDROME	√		
	3	TENNIS ELBOW	1		
	4	GREATER TROCHANTERIC PAIN SYNDROME	✓	1	✓
	5	OSGOOD-SCHLATTER DISEASE	1		
	6	PATELLA TIP SYNDROME	✓		
	7	MEDIAL TIBIAL STRESS SYNDROME	1		
	8	INSERTIONAL ACHILLES TENDINOPATHY	1		
	9	MIDBODY ACHILLES TENDINOPATHY	1		
	10	PLANTAR FASCIITIS	1		
TRIGGER POINT THERAPY	11	IDIOPATHIC LOW BACK PAIN	1	1	✓
	12	PSEUDORADICULAR SYNDROMES	1	1	✓
	13	MYOFASCIAL PAIN SYNDROME	1	1	√

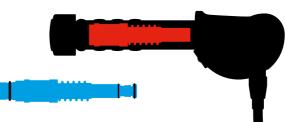
- > Moreover, the Swiss DolorClast® is also approved for the treatment of the following indications: primary and secondary lymphedema, Peyronie's disease, acute and chronic soft tissue wounds and cellulite
- > Two optional applicators for the Swiss DolorClast[®] EVO BLUE handpiece are available: 10 mm and 15 mm focus



A GREAT PIECE OF HIGH TECH → CLOSE AT HAND

SWISS DOLORCLAST® EVO BLUE HANDPIECE
→ INNOVATIVE HANDPIECE REVISION BY REPLACEMENT



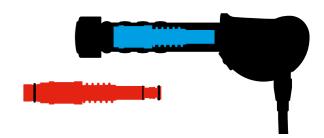




- > Replacement of the smart-lock system (in red) by a new one (in blue) in less than 60 seconds without any tools
- > A clear advantage of the smart-lock system over conventional systems with individual spare parts



→ WITH A TWIST OF THE WRIST



TECHNICAL DATA

> Compatible with all Swiss DolorClast® devices

Frequency 1-20 HzPressure 1.5-4.0 barWeight 0.895 kg

Dimensions (HxLxD) 113 x 250 x 51 mm

Swiss DolorClast® EVO BLUE handpiece set delivered with 15 mm, 15 mm trigger, 36 mm applicators and one maintenance kit

REFERENCES

Swiss DolorClast®
EVO BLUE handpiece
Maintenance kit
Applicator 10 mm
Applicator 15 mm
Applicator 15 mm trigger
Applicator 15 mm focus

Applicator 36 mm

Soft handle blue

FR-216 FR-217 EQ-102/D

Transportation case

DP-440A

FR-119A

EQ-209

FR-213

FR-214

FR-215















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